

Providing **smart security solutions** that integrate with your business and your lifestyle

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Over the past 30 years, the Tecom portfolio has continued to evolve with the changing landscape of the security industry in Australia and New Zealand. Utilising methods to continuously gather customer feedback, the Aritech team are relentless in their desire to provide a total intrusion and access control security solution for customers across the region.

Market Strengths

The Tecom range of products integrate alarm and access control functionality with building management systems.

The strength of this versatile and intelligent system is its high level of expandability; a feature rarely matched by other alarm and access control systems. Based on a modular design principle, the Tecom Challenger can deal with small to large multi-site operations. Expansion is a simple process with this design and is further enhanced by the backward compatibility of components, offering integration and expansion on every level of operation.

The requirements of reporting to remote monitoring stations are often overlooked by other security systems. The Tecom Challenger portfolio recognises the importance of reporting in a range of methods and formats. With a reporting format of Contact ID, reporting methods such as dialler, STU, IP and 3G/4G.

The Challenger panel has the capability to communicate via 10 paths simultaneously meaning that your Challenger panel can report to multiple monitoring stations, and multiple software packages, including the Tecom mobile phone app.

Integrated intrusion and access control

Designed to deliver a security solution to customers who are looking to protect people, property and assets. The Tecom portfolio addresses most small to large business needs and is suitable for:

- Schools and universities
- Banks and financial institutions
- Office buildings
- Retail spaces
- Public venues
- Warehousing facilities
- Government/Law and order
- Utilities

Industry Application - Education



Better education starts with safer schools

Even as school safety and security remain high priorities for all involved parties, administrators face a number of obstacles that can make developing and implementing a security plan a challenge.

EVOLVING TECHNOLOGY TO MEET CHANGING DEMANDS

Providing an effective learning environment is essential in supporting school systems' efforts to maximise student achievement. As a leading security partner for a number of school systems, Aritech has worked closely with administrators and channel partners to develop and implement security systems that provide reliable, scalable solutions to meet a variety of needs.

Together, components from these categories form a complete system that creates a safer environment for students, faculty and visitors while also protecting assets, equipment and property 24/7 throughout the school year. By incorporating open standards and accommodating legacy third-party products, Aritech solutions are cost-effective options that school systems can rely on.

Delivering whole-school security

VIDEO SURVEILLANCE



Aritech video products bring the benefits of digital security monitoring into new or existing systems for schools of all sizes. Featuring components that are easy to install and operate, Aritech solutions provide optimal video coverage.

- **HD and Analogue Cameras**
- **Network and TVI Recorders**
- **Monitors**
- **Transmission Products**



ACCESS CONTROL

Aritech represents leading access control products that cover a range of application requirements and integrate with existing infrastructure for optimal performance while still being simple to operate and manage.

- **Readers**
- **Software**
- **System Options**

INTRUSION



Aritech intrusion solutions feature advanced technologies to deliver greater security and scalability that easily accommodates system growth and changing needs.

- **Motion Detectors**
- **Sensors**
- **Software**
- **Keypads**



SECURITY MANAGEMENT

Leveraging the full functionality of all the security components requires robust management offerings. Aritech brings together multiple products in a user-friendly interface that can be managed on-site or remotely through Web-enabled devices to minimise threats and reduce costs.

Industry Application - Finance



Integrated solutions for financial institutions

The Tecom intrusion and access control portfolio gives banks and financial institutions the perfect solution to ensure their staff, customers and property are kept safe 24/7, 365 days a year.

FINANCIAL SECTOR OVERVIEW

Managing a financial institution's security is a significant responsibility. With a wide variety of requirements, a bank's security solution must protect everything from an ATM in a remote locations to the car park and surrounding areas of a retail branch, lobbies, work areas, offices and vaults. The ability to manage the system from a central location is critical to the daily process and auditing procedures of many of the leading institutions in Australia.

As banks continue to grow with technologies and a customer-focused mentality, it is important that the security system protecting these institutions grows with it.

Creating a secure environment starts with the cameras that deter unwanted activities near your ATM to sensors that alert you to tampering with your ATMs and retail branches. Manage staff access during opening and closing hours while keeping them safe from potential threats.

How it works

The Tecom intrusion and access control portfolio gives financial institutions the perfect solution to ensure their staff, customers and property are kept safe 24/7, 365 days a year.

Originally designed for a leading financial institution in the early 90's, Tecom's Challenger control panel has evolved as the sector has grown. By implementing functionality directly related to the high security demands of a bank such as scramble keypad, longer PIN numbers and enforced entry/exit procedures, a Tecom solution meets compliance and auditing procedures required by banking institutions and the constant changes that modern banking brings.

The rollout of the NBN has put pressure on the financial industry and institutions to look at ways of maintaining the highest levels of security without compromising their communication of events and alarms to the control room.

With a 3G option and ethernet communications there is no compromise to your branch security as your system will be monitored and events actioned regardless of connectivity type.

Through the integration of alarm and access control, an Aritech security system allows you to signal any alarm event during non-trading hours such as duress and acoustic alarms. Employees are kept safe after hours via alarm control in areas of your choice as well as securing the perimeter. This gives you peace-of-mind that Aritech is protecting you during business hours and your security system is doing its job after hours.

Expand your system further by integrating your CCTV system, giving you a complete view of your premises at all times. Capture footage of employees and customers 24/7 and should an incident occur, you can easily retrieve footage for auditing purposes.

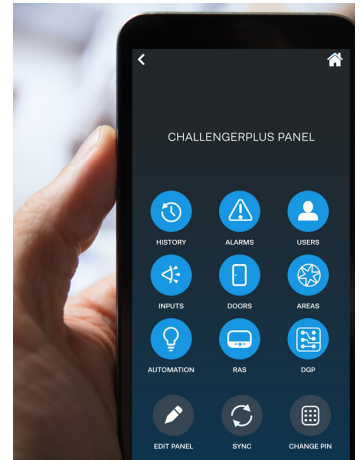
As well as protecting your assets, customers and employees, the Tecom solution enables regional / store managers to track and manage auditing and compliance procedures that need to be enforced based on head office policy. View alarms and events via web-based software from any smart phone or device. You can even remotely control access doors from your smart phone giving you full control of your system from any location with an internet connection.

The Aritech solution

To achieve maximum efficiency and control of your branch, Aritech recommends a Tecom intrusion and access control solution.

When you combine a Tecom Challenger panel, Web Management System and the Tecom IP Receiver you get a fully functional intrusion and access control solution, giving you the ability to tailor your system to your business needs. For real-time, convenient control, manage your system with the Tecom Mobile on your favourite device.

TruVision recorders and cameras can also enhance the control of your system and help deter threats through visual aids.



Industry Application - Retail



Integrated solutions for the retail industry

The Tecom intrusion and access control portfolio gives retail chains the perfect solution to ensure their staff, customers and property are kept safe 24/7, 365 days a year.

RETAIL SECTOR OVERVIEW

Retailing is a business with unique challenges. In an open environment with free public access, retailers must protect their assets while also quickly addressing changes in consumer preferences and market trends.

The security system has a lot of territory to cover - from the front entrance, sales floor and the stock rooms to the checkout lines and the loading docks.

It's essential that any security solution incorporates technologies that reduce the time it takes to perform common tasks and also enables you to manage remote systems from a central location.

The Solution

Whether you have 2 stores or over 1,000 stores nationally, the Tecom solution can grow as your business grows through a number of smart technologies offering you a single platform to manage your properties – regardless of size or complexity.

Non-trading hours are particularly vulnerable for retail chains and it is important to protect assets as well as people during these times. Multiple alarm types cater for opening hour fluctuations enabling you to manage your security system as your stores cater to customer demands.

Through the integration of alarm and access control, an Aritech security system transmits any alarm or system event during non-trading hours. Be alerted to an event from critical machinery in your premises to nonfunctioning intrusion devices. This can be done via your chosen communication medium.

Employees are kept safe after hours, via alarm control in the areas of your choice as well as securing the perimeter. This gives you peace-of-mind that Aritech is protecting you during business hours and your security system is doing its job after hours.

Expand your system further by integrating your CCTV system, giving you a complete view of your premises at all times. Capture footage of employees and customers 24/7 and should an incident occur, you can easily retrieve footage for auditing purposes.

As well as protecting your assets, customers and employees, the Tecom solution enables regional / store managers to track and manage auditing and compliance procedures that need to be enforced based on head office policy. View alarms and events via web-based software and you can even remotely control access doors from your smart phone giving you full control of your system from any location with an internet connection.

End result

Retail chains, single or multi-chain, require a solution that offers flexibility and control due to changing demands of customer traffic and trading hours. An Aritech solution ensures an efficient, practical security installation that can grow as your stores grow.

Protect your investment and keep your people safe with an intrusion and access control solution designed for the Australian market.

The Aritech solution

To achieve maximum efficiency and control of your retail premises, Aritech recommends a Tecom solution. Combining a Tecom Challenger panel, Web Management System and the Tecom IP Receiver gives you a fully functional intrusion and access control solution, giving you the ability to tailor your system to your business needs. For real-time, convenient control, manage your system with the Tecom Mobile on your favourite device.

TruVision recorders and cameras can also enhance the control of your system and help deter threats through visual aids.



Management Software Solutions



Manage your system efficiently and effectively

Integrations

Aritech offers a range of complete software solutions which provide integrated management of multiple systems and extend capabilities for comprehensive security and exceptional performance.

Access Control & Intrusion

Advisor Master/Alliance
Aperio
Challenger10
Challenger V8
ChallengerPlus
DSC PowerSeries NEO
Keywatcher
KONE
Schindler
Salto
TruPortal
Verex

Biometric

Morpho
XPR

Building Automation

MOD-BUS

CCTV

Avigilon
Axis
BVMS
Dahua
Dallmeier
Dedicated Micros
Genetec
Geutebruck
GeoVision
HIK Vision
IDIS/PACOM
IndigoVision
Milestone
Pelco 9760
TruVision

Fire Protection Systems

Apollo
Bosch FPA5000
Hochiki
Notifier
Protec

Other

SNMP Monitor
Digiplex 4
Helios IP

Web Management System (WMS)

Web Management System (WMS) for Challenger10 is an innovative and intuitive web-based reporting tool.

WMS collects data from your security system which enables you to generate user-friendly, flexible reports. Efficiently identifying activity that may require action, WMS gives you complete visibility of your site allowing you to respond more quickly and effectively than ever before.

Overview

The Tecom Web Management System (WMS) is a web-based analytics tool that collects Challenger10 system data and displays it on a user-friendly dashboard. Rather than scanning multiple reports, Aritech WMS gives users a detailed overview of their system and allows them to easily view important security data, including:

- Report on system-wide devices and users i.e. Challenger panels, inputs, outputs, users/ badges, and access levels
- Overview screen of system health (panels online/offline; monitoring station and database connection state, panel and devices firmware version display)

Tecom WMS is licensed on an annual renewal basis and your subscription entitles you to support and software upgrades as they become available.



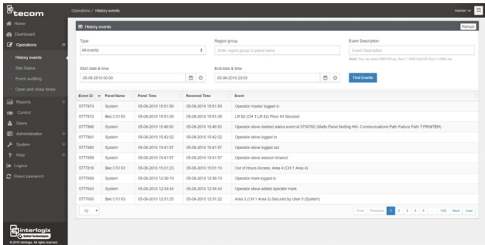
Features

- Automatic email of reports as per schedules.
- Add, delete and modification of users' access levels in the panel.
- Automatic enrolment of panels into WMS
- MySQL server
- Ability to remotely bulk upgrade new firmware into panels and devices.
- Command and control of panels such as doors, relays, inputs, areas, etc.
- User functionality based on permissions
- Reports can be exported in CSV or PDF format

For more information about a WMS solution please contact the Aritech team

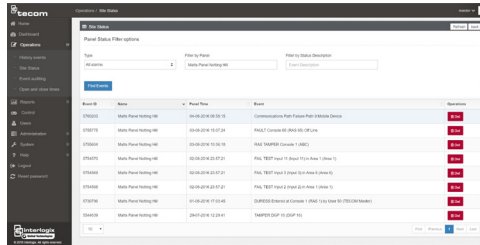
Data at your fingertips.
Anytime, anywhere.

Customisable dashboards to display complete system data including:



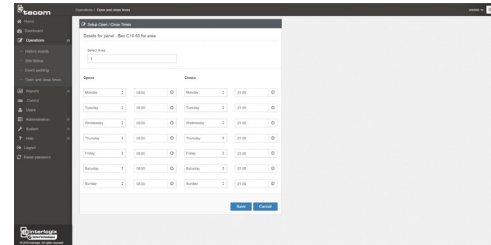
History Events

This displays history for all alarm events and panel events which can be segregated by regions, description, or specified time



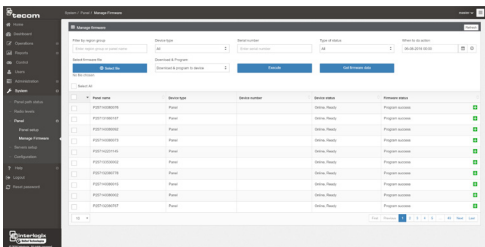
Site Status

Displays summary of site events, which can be filtered by different parameters such as input alarms, system alarms, relay status plus much more. Alarms can be acknowledged via this option.



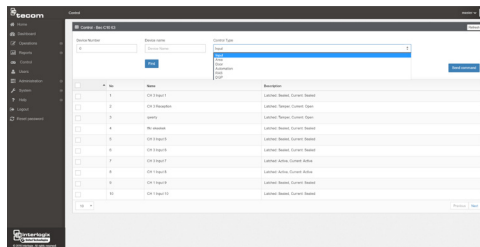
Operation hours

Provides a detailed report indicating the activity per site. Report contains information of the site manager and email address.



Firmware upgrade

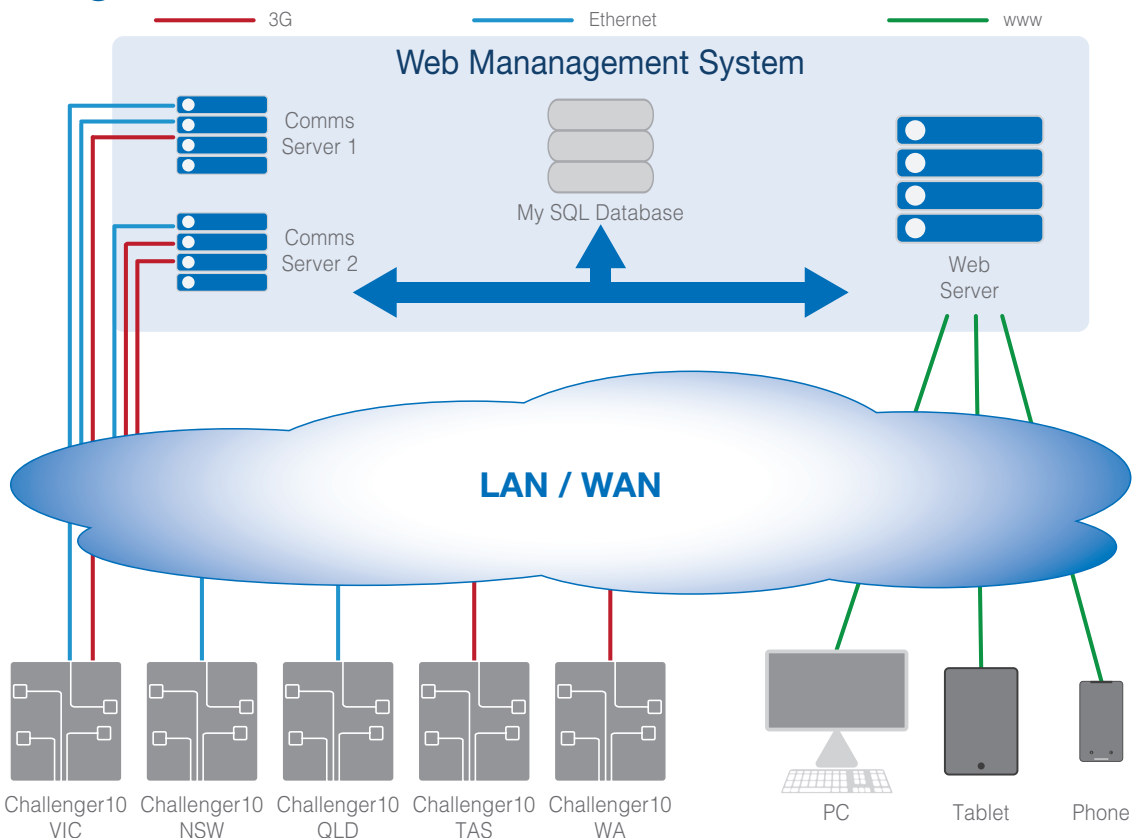
Firmware updates can be completed remotely for panels, DGPs and RASs at a scheduled time and date



Control

Allows the operator to perform control functions of the panel and its devices. For example, an operator can arm or disarm an area, or isolate and reset inputs.

System diagram



NOTE: The above system diagram is a representation of Web Management System connectivity and expansion capabilities. For configuration options and site capabilities of your individual requirements Aritech recommends that you work closely with our team to determine the best solution.



TecomC4 Management Software

TecomC4 provides a way for end users and site operators to manage single or multiple site facility and security systems from one interface.

Operators are able to monitor and control safety and security of staff, manage visitors, and ensure the security of physical assets across multiple sites and remote locations via a single interface.

Seamless integration enables verification of events through video streams and the ability to link intrusion events with access control to safeguard the safety and security of your people. TecomC4 software supports Challenger10 series control panels as well as a number of third party alarm and access control systems. Combined with video integration, it can provide alarm management enabling you to quickly and efficiently resolve any alarm.

- Support for ChallengerPlus, Challenger10, ChallengerLEPlus and V8 control panels
- Support for range of TruVision CCTV recorders
- Natively supports 3rd party devices
- Single intuitive user interface to all devices
- Manage and control alarms from devices
- Manage and control multiple sites
- No licensing required for additional clients or Photo ID
- Manage persons including access rights and credentials without device restrictions
- Dynamic floor plans to quickly identify an alarm location
- Encryption between clients and server

The power of integration

At the core of TecomC4 lies a powerful integration capability. Allowing you to integrate access control systems, electronic security devices, building automation, or camera systems from various manufacturers, gives your customers and partners more choice, and offers a solution not matched by many rivals.

Aritech continues to drive development into the TecomC4 management solution, with new drivers to 3rd party devices released on a regular basis.

Keep up to date with TecomC4 integration capability by visiting www.interlogix.com.au/tecomc4

Online Training

TecomC4 online training gives you the flexibility you need to complete the training at your own pace. Once you have been trained you will receive a unique training ID that can be used when purchasing the software, or requesting technical support.

Visit the eLearning Portal today at www.interlogix.com.au/training

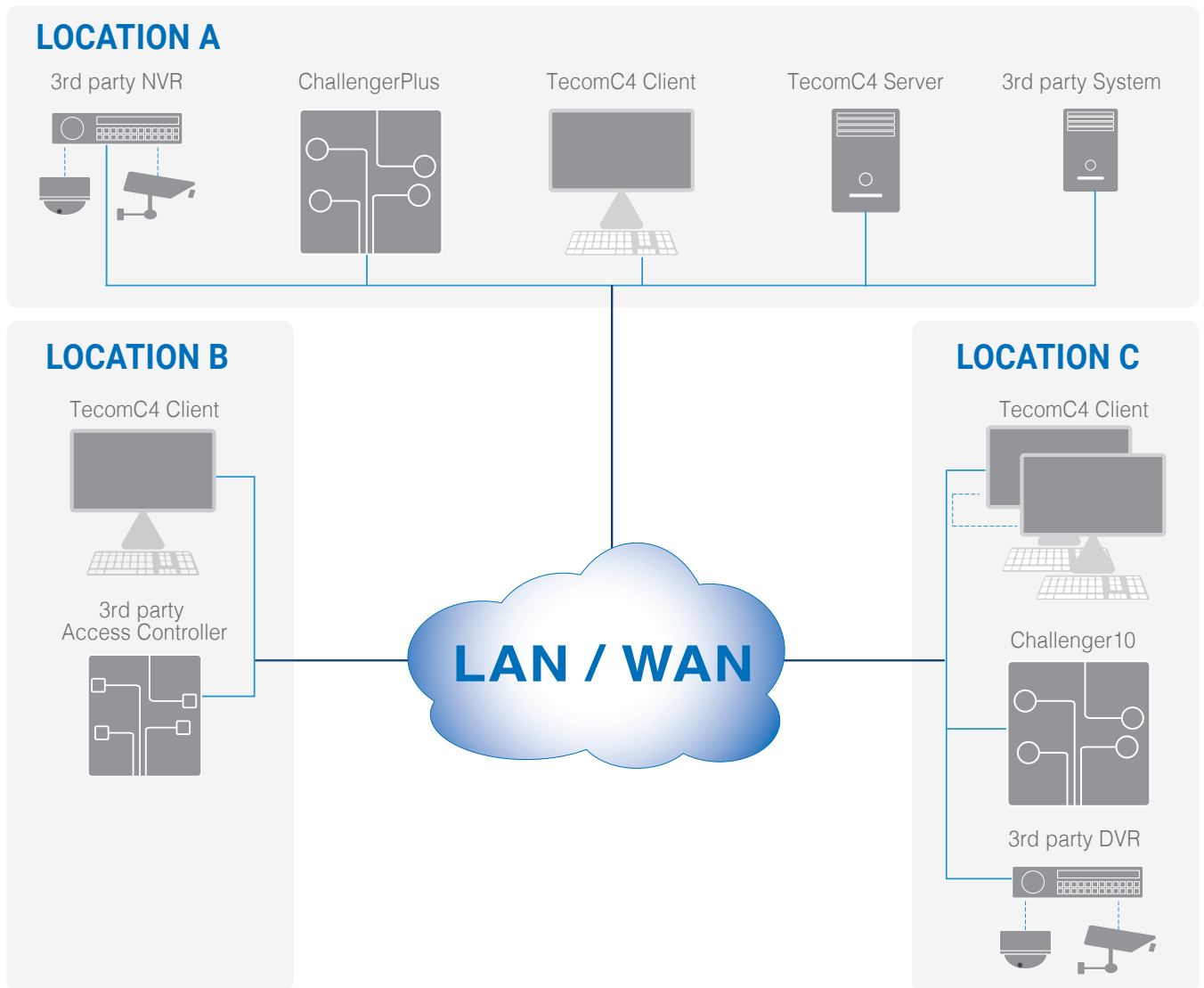
TecomC4 is available to trained installers only.

Once you have been trained you can place your order and register your license online.

www.interlogix.com.au/tecomc4-site-registration

System Architecture

Seamlessly manage security panels and video devices across multiple locations



Configure your programming simply and effectively with CTPlus



Detailed programming and configuration of your Challenger10, ChallengerPlus and NAC is handled using the CTPlus software, no need to register just download from the Aritech website at interlogix.com.au/downloads.

MANAGEMENT SOFTWARE



Forcefield Management Software

Forcefield is an integrated security management platform that seamlessly combines access control, intrusion detection and video surveillance into a single, unified system. Managing license credentials for staff and visitors is now done easily via Forcefield 8.0. User licenses allows an operator to add credentials to each user (such as security license, forklift license, site induction completion date, tight spaces training, high voltage, etc). An expiry date for each credential is also available and up to 5 licenses can be assigned per person. Forcefield 8.0 now makes management of expiring licences easier with a dual notification system. The first notification alerts you to an upcoming expiration date. At a nominated date, Forcefield will create a warning alarm advising the operator so that they may take steps to ensure the user(s) can action a renewal, or remove the license if no longer required. Forcefield boasts a real-time operating system at its core for enhanced security and reliability while maintaining the flexibility and convenience of Windows workstations. Automatic user import/export allows integration with visitor management and human resource systems to streamline people management in your organisation. Third-party systems can also be integrated to support pagers, duress solutions, intercom switchers and video systems.

- Supports all Challenger control panels
- Supports the Network Access Controller
- Support for 4G connection to all Challenger panels (except Challenger v8) via the 4G Communications Module
- Manage up to 5 user-defined licenses, with dual notifications on expiration of license credentials
- Highly scalable solution supporting thousands of doors, cameras and alarm points
- High-level integration to third-party systems such as intercom, duress, HR and video
- Control doors, alarms, user access, cameras (including PTZ cameras) and digital recorders from map display

Ordering Information

Forcefield

TS9100 Forcefield Hardware

TS9120VM Forcefield Enterprise Hardware VM



CTPlus Configuration Software

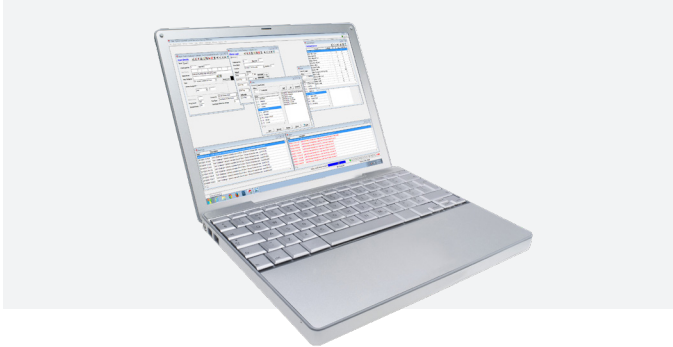
CTPlus is a software tool for programming a Challenger security system, and is typically used by installers with a laptop PC. CTPlus provides an intuitive interface for programming the Challenger system, including the ability for technicians to Upload/Download or import/export system configurations to allow for off-site programming or system backups. Service technicians can use CTPlus to connect remotely to Challenger panels (Challenger10 onwards) for programming, routine maintenance, and fault diagnosis.

- Supports Challenger10, ChallengerPlus and NAC control panels
- Flexible connectivity options, supporting new and existing technologies, including UltraSync, USB and IP
- Download firmware securely, direct from the cloud for Challenger panels and supported peripherals
- Upload and download of full panel configuration
- Back-up and archiving facilities for both database and history information
- The optional TS0870P Smart Card Programmer is used to create highly-secure, password-protected Smart Cards and Smart Fobs for access control
- Fast navigation between programming forms with hyperlinks
- Highly adaptable tabbed or windowed user interface
- Advanced diagnostics within CTPlus assist with troubleshooting both on-site and remotely.

Ordering Information

CTPlus

DOWNLOAD ONLY www.interlogix.com.au/downloads

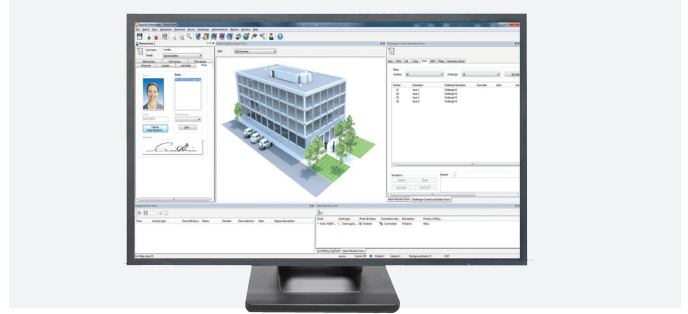


Titan Installer Tool for Challenger V8

Titan is a software tool for programming and controlling a Challenger security system. Titan can be used on-site or it can be used remotely via modem or IP connection. Titan is typically used by installers with a laptop PC to program Challenger systems.

Titan provides a simple and easy-to-use interface for programming the Challenger system. Titan also provides the ability for technicians to import and export system configurations to allow for off-site programming or system backups.

- Supports Challenger V8 and Challenger10 control panels
- Flexible connectivity options, supporting USB, IP, modem or serial
- Fully integrated, remote firmware flash utility for Challenger10 panels
- Full upload and download of panel configuration
- Back-up and archiving facilities for both database and history information
- Challenger V8 to Challenger10 migration tool included



Security Commander (legacy sites only) Management Software

Security Commander sites are encouraged to migrate to the latest management software, TecomC4 due to the phase out and end-of-life plan.

Important milestone dates for Security Commander:

- End-of-sale for base and professional license: 31 March 2020
- End-of-sale for all other license options: 31 December 2020
- End-of-life for all Security Commander SKUs: 31 December 2021

Please speak to your Aritech Australia sales representative for more information.

Ordering Information

Titan	
TS9002	Titan base license including installation CD



Works with
UltraSync™

Securely connect via the cloud with your Challenger system with the TecomPlus mobile app.

The TecomPlus mobile app allow users to perform the most important functions on their preferred digital device.

The simple but powerful interface allows you to open doors, arm/disarm areas, isolate inputs or control lighting. You can also manage users and perform testing of your devices from the convenience of your mobile device, at any time.

The TecomPlus app will directly display access and alarm event history from the panel in a friendly, easy to read format. It also allows users to quickly view outstanding alarms and reset those alarms - all with the touch of a button.

Manage user access through the programming of user PIN codes or access control cards, also allowing you to edit user details including access groups and expiry dates.

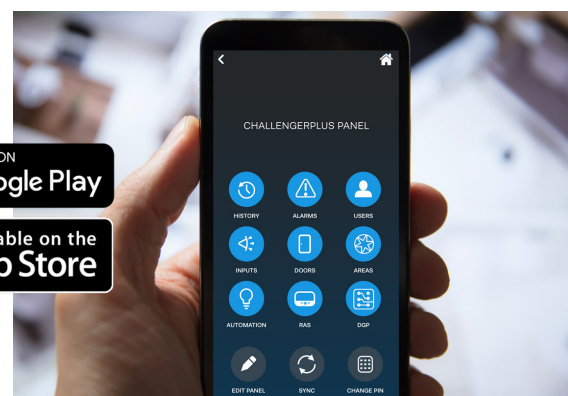
The TecomPlus app is available for the ChallengerPlus range of control panels.

Features

- Securely communicate with ChallengerPlus using UltraSync
- Allows push notifications of events on ChallengerPlus systems using UltraSync
- Supported on Android and iOS mobile phones and tablets
- Intuitive user interface
- View alarm and access event history
- View outstanding alarms
- Reset alarms

GET IT ON
Google Play

Available on the
App Store



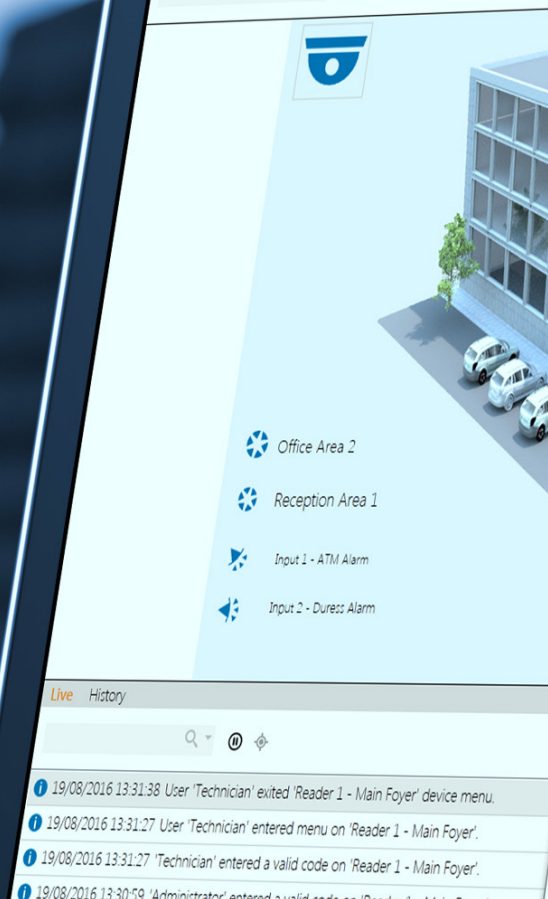
Software Comparison Matrix

Download a full version of the
Tecom Compatibility Matrix at
www.interlogix.com.au



	CTPlus	Titan 3.5.1	Security Commander Lite	Security Commander 2.3	Forcefield 8.0.0	TecomC4
Challenger panel support						
Network Access Controller	✓				✓	✓
ChallengerPlus	✓				✓	✓
Challenger10	✓	✓	✓	✓	✓	✓
ChallengerLEPlus	✓				✓	✓
Challenger V8		✓	✓	✓	✓	✓
Panel configuration upload/download	✓	✓	✓	✓	✓	
Panel user management	✓	Full	Download	Download	Download	Download
Panel user upload	✓	✓				
UltraSync connection	✓					
UDP/IP connection	✓	✓	✓	✓	✓	✓
TCP/IP connection					✓	
Dialler connection	✓	✓	✓	✓	✓	
RS-232 serial connection	✓	✓	✓	✓	✓	
3G/4G Communication Module configuration	✓	✓	✓	✓	✓	
Communicate via 3G/4G Communication Module					✓	
C-Bus configuration	✓	✓	✓	✓	✓	
C-Bus control	✓	✓	✓	✓		
USB connection	✓	✓				
Panel time synchronisation	✓		✓	✓	✓	✓
Firmware update utility	✓	✓				
Firmware feature support (minimum)	V10-06	V10-02	V10-02	V10-02	V10-02	V10-06
Firmware feature support (maximum)	V10-07	V10-06	V10-06	V10-06	V10-07	V10-07
Titan migration	✓	n/a	Full	Full	Partial	
OS/Database support						
Windows Server 2019						✓
Windows Server 2016						✓
Windows Server 2012 (32 or 64-bit)			✓	✓		✓
Windows Server 2008 R2 (32-bit or 64-bit)			✓	✓		✓
Windows 10	✓	✓	✓	✓	Client only	✓
Windows 8 (32 or 64 bit)	✓	✓				✓
Windows 8.1 Pro or above (64-bit)	✓	✓	✓	✓	Client only	✓
Windows 7 Professional or above (64-bit)	✓	✓	✓	✓	Client only	✓
QNX4					Server only	
Database	MS SQL Local DB	Paradox	MS SQL	MS SQL	RAIMA	MS SQL
Supported in ESXi environment					✓	
System Management						
Graphic maps		✓		✓	✓	✓
Multi-client				✓	✓	✓
Multi-tenancy			✓	✓	✓	✓
Advanced operator permissions	✓		✓	✓	✓	✓
Software triggering					✓	✓
Off-site redundancy			MS SQL	MS SQL	✓	MS SQL
Automated database backup	✓	✓	✓	✓	✓	✓
Interface options						
ODBC compatible database	✓		✓	✓		✓
3rd party alarm interface					✓	✓
3rd party video support				✓	✓	✓
User Link protocol					✓	✓
Automatic user import				✓	✓	✓
Automatic user export					✓	
Manual user import by CSV			✓	✓	✓	✓

Software Upgrade & Support Plan



Ensure your customers continue to receive maximum system functionality and support by keeping their support plans current.

What is a Software Upgrade and Support Plan (SUSP)?

A SUSP is purchased by an approved Installer on behalf of a specific End User system. A SUSP makes all ongoing, commercially released versions of the relevant software available. You also gain access to installation support via the telephone and online.

Unique Value Proposition

- Our value proposition and differentiation lie in our ability to provide our customers with an enhanced level of support.
- Technical Support Specialists, who can assist with customers day to day operations, provide issue resolution in a timely manner and ensure that the system is working to satisfaction level.
- Our Support team is able to maximise the System User's investment and ensure that the projected benefits of the Tecom system are realised to their fullest potential.

For more information about the TecomC4 SUSP, please visit the Resource Library at www.interlogix.com.au



Strategic Business Benefits

- Support plan provides an insurance policy for times in need.
- Setup and configuration assistance.
- Troubleshooting, defect verification and Hot Fix support.
- Unlimited access to new releases and feature updates during the duration of the Support Plan.
- Email support and proactive notification of pending Support Plan expirations.
- Remote Connection assistance available for expedited issue resolution.

Lifecycle: How long is my version supported?

For customers on a valid SUSP that utilise a version of software that becomes “End of Life” during the agreement period, Aritech will provide best effort technical support until the agreement’s expiration or until the customer upgrades to the appropriate supported version. Best effort support includes normal Aritech troubleshooting until the root cause requires a software modification. Aritech will do it’s best to provide a recommended workaround, but cannot offer any type of HotFix or Patch as the version is considered obsolete and unsupported. The only course of action may require a software upgrade. TecomC4 software has a standard warranty period of 2 years.

Qualification Criteria

The technician calling and/or logging a ticket online must be trained in the product associated with the SUSP and quote their Assessment ID (where relevant) to gain access to support.

Aritech reserves the right to appoint a channel partner to provide technical support on their behalf.

Hardware Solutions



Scalable solution that grows with your business

The Challenger series panel is the heart of the system, and comprises a modular 'Add as you go' design. By adding intelligent door/lift controllers, input/output expanders, memory expanders and LAN devices, you can cost effectively add capacity and functionality as required. Multiple panels can be linked together in one system via management software.

Four reasons to make Challenger your number one choice for your security needs

Flexible

Challenger's modular design provides for a wide range of applications, depending on the number of 'building blocks' you need to add. Start with just a few access doors and alarm inputs or expand to control thousands of doors, inputs and users. Challenger can connect directly to a serial printer without the need for a printer module, dedicated computer or network.

User-friendly

Users can operate the Challenger system via cards or keypads. More advanced control and system configuration can be done via LCD keypads, whilst 'power users' and system programmers may opt for using Aritech's management software applications.

Scalable

Challenger provides a scalable solution, from a single site, to a multinational deployment. By simply adding a range of intelligent door or lift controllers, input/output expanders, memory expanders or LAN devices, your Challenger system will accommodate your ever-expanding needs.

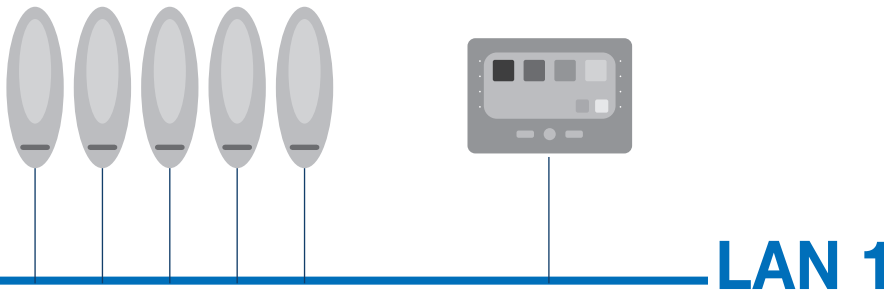
Proven reliability

Challenger is installed in some of the leading universities, banks and retail outlets across Australia and New Zealand. As a business, Aritech is committed to continuous improvement and operate an extensive program to identify innovations and technologies to enable us to relentlessly improve the quality of our products.

Challenger Schematic Overview

Remote Arming Station (RAS)

You can have up to 16 RASs (keypads, Smart Card readers, or Smart Door Controllers) connected to each LAN



RS-485 system LAN provides for the following branch functionalities. Use two-pair twisted, shielded data cable such as Belden 8723.

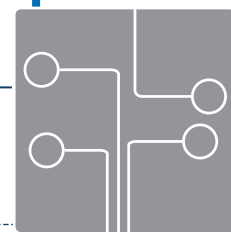
Alarms: internal and external sirens, one strobe



Printer



Challenger



Data Gathering Panels (DGP)

DGPs add inputs to the system. Relays are added via relay expansion modules



Data gathering panels (DGP)
TS0820, TS1020,
TS0824 (8 inputs)

You can have up to 31 DGPs per system, 24 of which can be Intelligent 4-Door or 4-Lift Controllers



Input expansion module
TS1021, TS0021-8 input modules can be added to provide up to 32 inputs per DGP address



Relay expansion module
TS0840 or TS0841 or TS0842

DGPs can expand the number of zone inputs to 1008 per system, and relays (outputs) to 512 per system

Note: this is an indication only. Contact your security professional for advise on expanding your system.

Wiegand interfaces for 4 doors (not applicable to TS0866)

Memory expansion module

8-Ohm siren output

4 onboard relay outputs

Relay expansion module TS0840 or TS0841 or TS0842



4-Door Intelligent Access Controller TS0866/TS0867



4-Door Controller

Each door controller adds 4 door relays and reader connections. Up to 16 additional readers may be connected via RS-485 local LAN

Wireless DGP

Each adds up to 32 wireless alarm inputs or 1,024 duress inputs (key fobs) to the system

Wireless DGP TS0825, TS0825E, CA1230

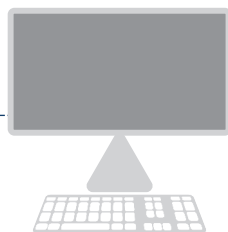


Wireless sensors and key fobs

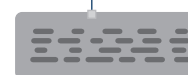


LAN/WAN

Connection via: Ethernet, USB, Onboard dialler RS-232



Management/Configuration Software



IP LAN Adaptor TS0098



Relay (output) expansion modules TS0840 or TS0841 or TS0842 expansion modules can be added to provide up to 255 relays or outputs (of which 144 can be physical relays).

Network Access Controller

Each controller adds 4 doors, each with separate relays for door control and events (e.g., DOTL, Forced etc.), and up to 6 reader connections via RS-485 LAN ports.

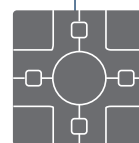
LAN 2

4 Lift Intelligent Access Controller TS0869



4-Lift Controller

Each lift controller adds 4 door relays and 4 reader connections. Up to 16 additional readers may be connected via RS-485 local LAN



Network Access Controller TS1066



Wiegand interfaces for 4 lifts



Memory expansion module



8-Ohm siren output



4 onboard relay outputs



Relay expansion module TS0840 or TS0841 or TS0842



Lan interfaces for 4 doors



Wireless lock and reader solutions via RS-485 LAN



8-Ohm or 12v siren output



4 onboard relay outputs



Dual Wiegand expansion module TS1061



Manage lift banks with no additional hardware in residential apartment buildings and small commercial spaces

The Tecom Intrusion & Access Control solution has never been more affordable for the small commercial or residential premises.

With no additional hardware and less programming required, installing a Tecom solution into these applications offers a lower installation cost, while giving you seamless access to your system.

Perfect for apartment buildings and commercial buildings with a maximum of 10 floors and 2 lift banks, Tecom continues to innovate to provide cost effective solution for all premises.



UltraSync™ allows remote connectivity and automation, helping deliver a secure security solution to commercial and residential premises. With a secure IP connection, UltraSync allows you to connect your Tecom solution to a central monitoring station of your choice.

- End-to-end encryption from panel to monitoring station
- Automatic setup using Ethernet or Cellular to UltraSync Cloud
- Send reports on panel events to up to 8 email addresses



ChallengerPlus Control Panel

ChallengerPlus is an advanced security solution designed for commercial and corporate sectors from Aritech. Now offering simplified programming and the ability to connect to lifts, it is the perfect solution for the security requirements of banks, retail outlets, educational facilities and more. As with all Tecom solutions, ChallengerPlus has been built as a modular system which can be scaled for almost any application, from small to large commercial installations. This flexibility makes ChallengerPlus the perfect solution to protect you in the short and long term, growing with you as your business grows.

With thousands of programmable options, ChallengerPlus is designed to meet any security and access requirement and can be tailored to your own security policies.

Tailor your own solution by using the many configuration options to suit your site's requirements. Your system can be customised to individually arm areas by time and location, which gives you incredible flexibility to protect people and assets.

Users can be assigned a start and end date that is stored in the panel, meaning a permanent connection to management software is no longer required to activate or remove a person's access.



Features & Benefits

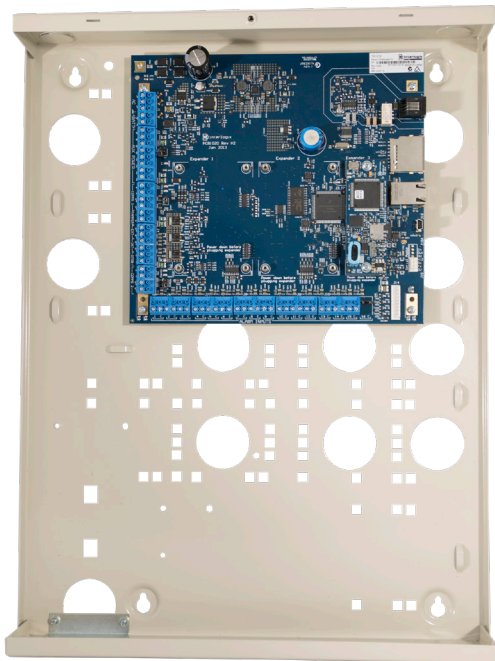
- The new Standard Doors functionality simplifies programming of the panel based doors using existing hardware
- Standard Lifts provides you with 2 lifts of up to 10 floors each which can be programmed without the need for a dedicated lift controller
- The Challenger system can control alarm points, access control doors and lifts, lighting, heating and air conditioning, video switching, bank vaults, warehousing access control, plant equipment and automate most building functions.
- Intelligent Access Controllers can be connected to the Challenger Panel to enhance access control features throughout a system, on both door and floor access. These provide full redundancy, ie. standalone mode and special functions for higher security requirements. See Data Gathering Panels and Access Controllers section for more details.
- The Challenger can be expanded to accommodate up to 65,535 full programmable users.
- Programmable holidays modify existing access restrictions.
- A date for routine maintenance can be preprogrammed along with customised text that will appear on any LCD Arming Station in a system.
- Extensive macro logic programming features can be used to program a complicated sequence of events. For example, allowing a water storage tank to be completely filled only during off-peak electricity tariff rates, thus reducing costs and environmental impact. Other features which can be programmed using macro logic include HVAC and lighting.
- Arming and disarming can be automated to occur at particular times, days and/or when particular events occur in a system. Auto arm and disarm removes the reliance on staff to maintain security integrity.
- Areas can be linked together to create common areas. These physical areas can then be armed and disarmed in unison without separate access control procedures.
- Challenger Panel On-board Ethernet allows for the connection of a computer to run Tecom's Titan Management Software.
- A port on the Challenger Panel can be connected to a laptop or PC to enable download and upload of Challenger system information.
- Onboard modem, external monitored siren, internal siren and strobe connections come standard on the Challenger panel
- Capable of communicating with Remote Arming Stations and Data Gathering Panels over leased line, fibre optic microwave etc. using LAN devices.
- Multiple base station reporting formats are supported including Contact ID.

Challenger10 Ordering Information

Challenger Series Control Panel

TS-CHPLUS ChallengerPlus panel with plug pack, with enclosure

TS-CHPLUSB ChallengerPlus, board only



Challenger10 Control Panel

Challenger10 is an advanced security solution designed for commercial and corporate sectors and is the perfect solution for the security requirements of banks, retail outlets, educational facilities and more. Challenger10 is a modular system which can be scaled for almost any application, from small to large commercial installations. With thousands of programmable options, Challenger10 has been designed to meet any security and access requirement and can be tailored to your own security policies.

Tailor your own solution by using the many configuration options to suit your site's requirements. Your system can be customised to individually arm areas by time and location, which gives you incredible flexibility to protect people and assets.

Users can be assigned a start and end date that is stored in the panel, meaning a permanent connection to management software is no longer required to activate or remove a person's access.



Compatible with
TecomC4
Management Software

Tecom Mobile App



Features & Benefits

- The Challenger system can control alarm points, access control doors and lifts, lighting, heating and air conditioning, video switching, bank vaults, warehousing access control, plant equipment and automate most building functions.
- Intelligent Access Controllers can be connected to the Challenger Panel to enhance access control features throughout a system, on both door and floor access. These provide full redundancy, i.e. standalone mode and special functions for higher security requirements. See Data Gathering Panels and Access Controllers section for more details.
- The Challenger can be expanded to accommodate up to 65,636 full programmable users.
- Programmable holidays modify existing access restrictions.
- A date for routine maintenance can be preprogrammed along with customised text that will appear on any LCD Arming Station in a system.
- Extensive macro logic programming features can be used to program a complicated sequence of events. For example, allowing a water storage tank to be completely filled only during off-peak electricity tariff rates, thus reducing costs and environmental impact. Other features which can be programmed using macro logic include HVAC and lighting.
- Arming and disarming can be automated to occur at particular times, days and/or when particular events occur in a system. Auto arm and disarm removes the reliance on staff to maintain security integrity.
- Areas can be linked together to create common areas. These physical areas can then be armed and disarmed in unison without separate access control procedures.
- Challenger Panel On-board Ethernet allows for the connection of a computer to run Tecom's Titan Management Software.
- A port on the Challenger Panel can be connected to a laptop or PC to enable download and upload of Challenger system information.
- Onboard modem, external monitored siren, internal siren and strobe connections come standard on the Challenger panel
- Capable of communicating with Remote Arming Stations and Data Gathering Panels over leased line, fibre optic microwave etc. using LAN devices.
- Multiple base station reporting formats are supported including Contact ID.

Challenger10 Ordering Information

Challenger Series Control Panel

TS1016 Challenger10 panel with plug pack in TS0307 enclosure

TS1016B Challenger10, board only



ChallengerLEPlus Control Panel

The ChallengerLEPlus control panel is a cost-effective intrusion panel with a small footprint, allowing installation in locations where space is at a premium.

Despite the small size, ChallengerLEPlus contains many advanced features you would expect in a Tecom system. These include native Ethernet, mobile app support, C-Bus* integration, 3G expansion module support and management software connectivity.

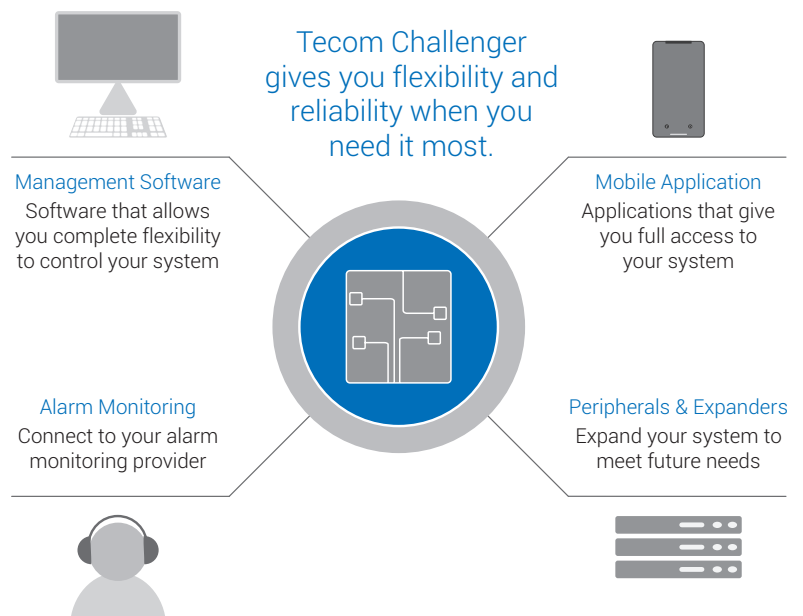
The ChallengerLE complements the family of control panels, fitting seamlessly into the Challenger ecosystem. It is fully compatible with all peripherals and Tecom software packages. The ChallengerLEPlus uses the same peripherals and has an identical user interface, removing the need to retrain staff already familiar with the Tecom Challenger platform.

The ChallengerLEPlus is a versatile product suitable for use in small, standalone or large networked systems. Small sites may also wish to use the Tecom Mobile app for basic site control. Large customers can elect to connect multiple ChallengerLEPlus panels into management software as an integrated system.



Features & Benefits

- UltraSync connectivity
- On-board Ethernet, USB and RS-232 with optional 3G expansion module for ultimate connectivity
- Fully flexible communications with options for simultaneous and redundant reporting to monitoring stations, management software and third-party systems
- Small form factor
- iOS and Android mobile app for simple and convenient operation
- High-level integration to building automation (C-Bus)
- Full text descriptions of panel items (e.g. users, inputs, areas, doors, etc.) are stored in the panel
- Fully backwards compatible with most Challenger V8 peripherals
- Upgrade via remote flash firmware
- Support for multiple end-of-line (EOL) resistor values for economical upgrade from other alarm systems



ChallengerLEPlus Ordering Information

Challenger Series Control Panel

TS1016LEPLUS ChallengerLEPlus Control Panel



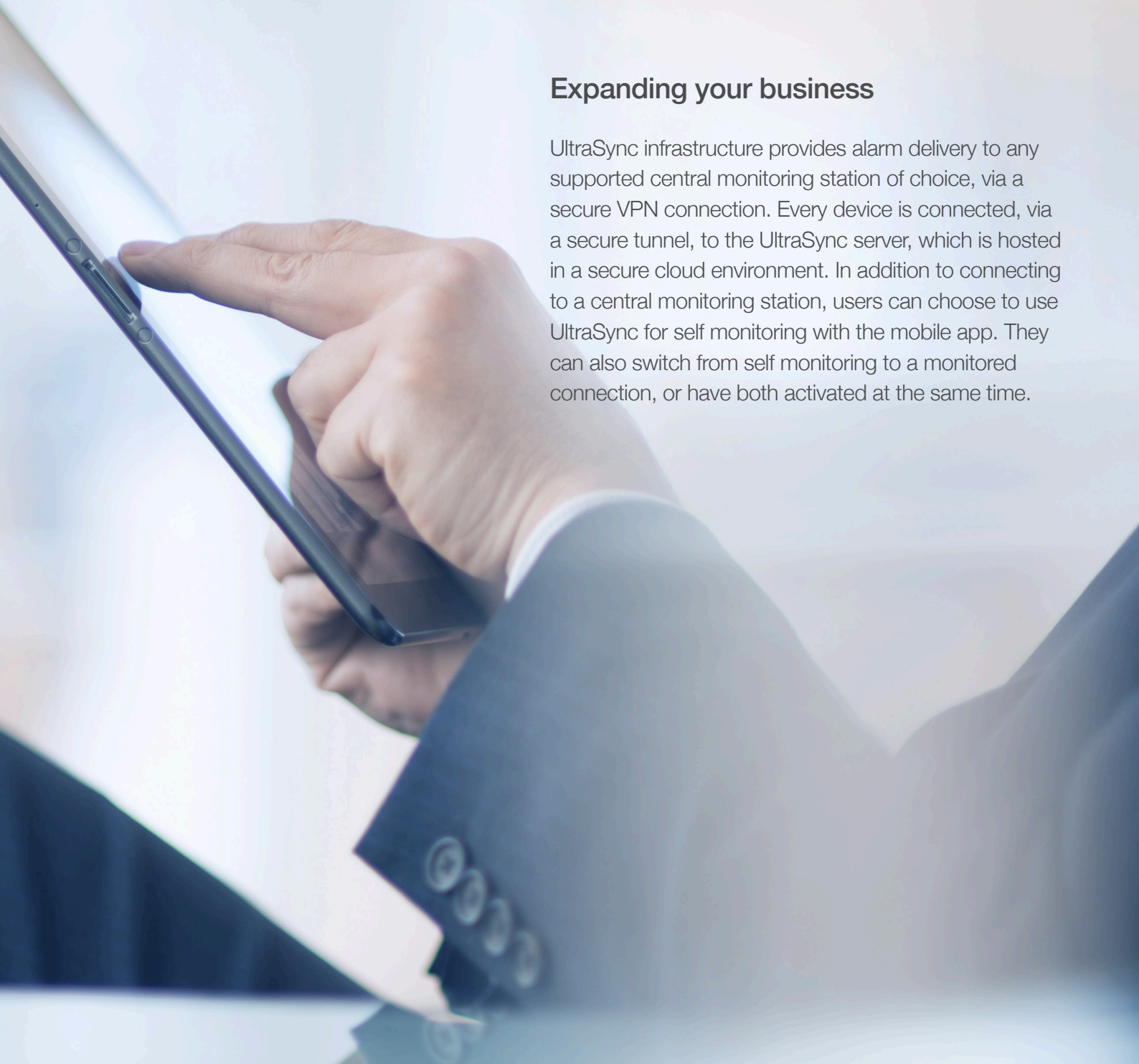
ultraSync

Security solutions that adapt to your business needs

Ideal for small to mid-sized businesses, the UltraSync system delivers smart, comprehensive and cost-effective security. Reliable, scalable and convenient, the multi-functional system allows you to synchronize your facility's security, environment, energy usage and more with your ever-changing business schedule.

Expanding your business

UltraSync infrastructure provides alarm delivery to any supported central monitoring station of choice, via a secure VPN connection. Every device is connected, via a secure tunnel, to the UltraSync server, which is hosted in a secure cloud environment. In addition to connecting to a central monitoring station, users can choose to use UltraSync for self monitoring with the mobile app. They can also switch from self monitoring to a monitored connection, or have both activated at the same time.





Added convenience

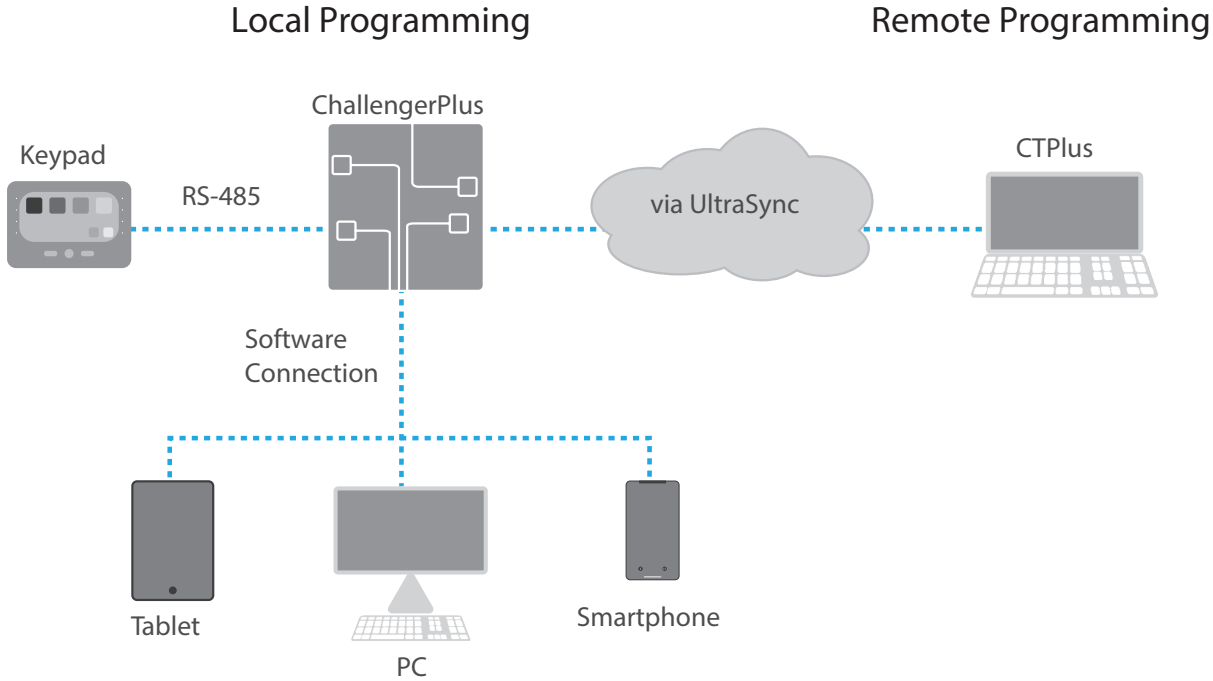
Secure and convenient, lights turn on when motion is detected. Video cameras with two-way audio enable person to person conversations via your mobile device. And, you can also remotely unlock doors to allow access for after hour deliveries.

Smart control at your fingertips

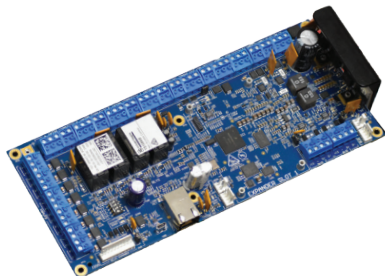
With the UltraSync system, you can manage multiple sites through a single application. It also allows you to define different levels of access for different people. And, you can create personalized schedules that allow access to selected parts of your building at designated times and on designated days.

Wherever you are, UltraSync is there with you

Built on cloud-based technology, the UltraSync system and app allow you to remotely manage and automate building systems— like HVAC, Z-Wave® lights, thermostats and locks—from your smartphone or tablet.



Network Access Controller



Network Access Controller is an access control solution allowing you to manage your door and access requirements as well as supporting intrusion applications.

Flexible connection options mean the Network Access Controller can connect directly to Management Software without the need for other panel hardware as well as being able to connect to the ChallengerPlus panel for access control and intrusion capability.

A powerful CPU ensures the Network Access Controller suits a range of applications, from small standalone systems through to much larger systems covering hundreds of thousands of users.

This large memory capacity allows the Network Access Controller to locally store up to 250,000 users. Combined with more than 10,000 flexible access groups and user-configurable override times on each door, the Network Access Controller is suitable for even the most demanding security requirements.

The Network Access Controller is specially designed with advanced power and battery management for superior reliability and peace of mind. Each battery terminal is capable of charging a completely flat battery back to operating status which allows your Network Access Controller sites to continue operating at their best in the event of a power outage. In the event of a complete, extended power failure your system will be back online within seconds.

Configuration of the hardware connected to each door is fully customisable with the ability to select from onboard hardware, RAS devices or DGP devices. Coupled with advanced diagnostics available in CTPlus, the Network Access Controller is a complete solution for your access and intrusion needs.

Ordering Information

Network Access Controller	
TS1066	Network Access Controller - 8 doors
TS1066-4	Network Access Controller - 4 doors
TS1066B	Network Access Controller, PCB only - 8 doors
TS1066B-4	Network Access Controller, PCB only - 4 doors
TS1066P	Adaptor Plate

Features

- Direct connection to supported software
- Compatible with ChallengerPlus panels
- Large memory capacity:
 - 250,000 users
 - 10,000 door groups
 - 50,000 history events
- Dual-BUS to support:
 - Tecom RS-485 readers or expanders
 - OSDP v2
 - Aperio
 - Salto
- Remote flash firmware upgradeable
- Onboard ethernet
- 8 inputs onboard
- 6 readers per door with any combination of in/out
- Relay expander port
- Support for multiple end-of-line (EOL) resistor values
- Scheduled lock/unlock override times
- User configurable door override times
- Card data can be up to 128 bits on every credential
- Each user can have a 10 digit PIN
- Map up to 32 inputs and 16 outputs for use with ChallengerPlus panel
- Up to 100 actions can be scheduled such as lock/unlock and enable/disable.
- Internal error analysis (can find and repair faults avoiding unit malfunction)

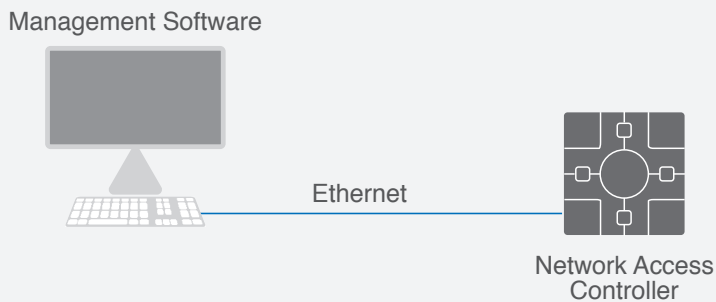


TS1066P Adaptor Plate

Ordering Information

Accessories	
ENC-LGE	Multipurpose Enclosure
TS1061	Dual Wiegand Interface, 2 relay outputs, 4 inputs

With 3 modes available, the Network Access Controller offers a security solution that suits your application.

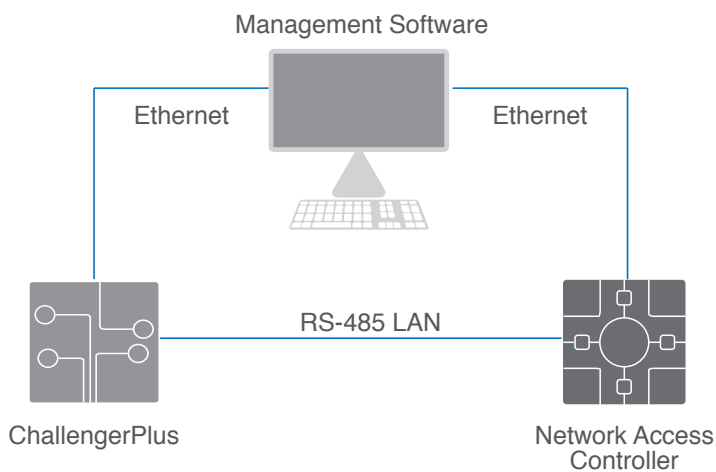


For new sites with a focus on Access Control

IP Direct Mode

Connects directly to software using IP.

- 250,000 Users
- 10,000 Door Groups
- 50,000 Events History
- Access only

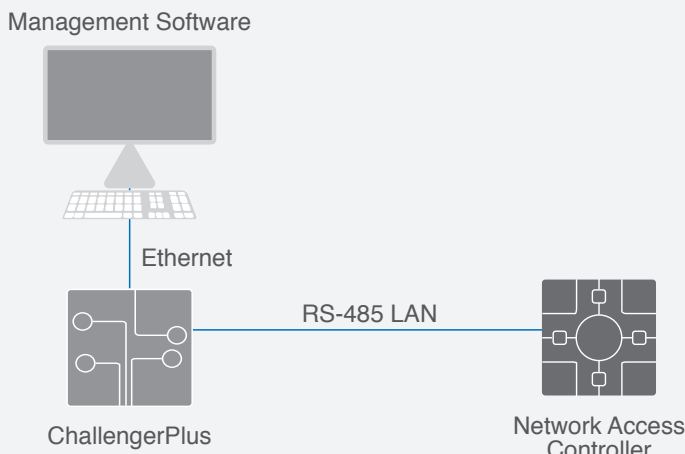


For large sites who need both Access Control and Intrusion functions

Extended via IP Mode

Connects to software and ChallengerPlus LAN.

- IP : Access
- Challenger LAN RS485 : Intrusion
- Increased capacity compared to 4 door controller



For existing installations as an easy upgrade

Classic Mode

RS-485 connected to ChallengerPlus LAN

- 65,565 Users
- 255 Door Groups
- 50,000 Events History
- Access and Intrusion capability

Hardware Comparison Matrix

	ChallengerPlus TS-CHPLUS	Challenger10 TS1016	ChallengerLEPlus TS1016LEPLUS	Network Access Controller TS1066
Hills Order Part Number	S3849A	S3849A	S6361A	S7016A
Users (expanded)	2,000 (65,535)	2,000 (65,535)	100	250,000
Users with names	2,000	2,000	100	
Areas	99	99	16	
Area Groups	255	255	32	
Alarm Groups	255	255	42	
Floor Groups	128	128	16	
Door Groups	255	255	32	10,000
Zone inputs	1,008	1,008	40 physical, 8 logical	
Relays	512	512	32	
Event flags	255	255	100	
Event Log History	10,000	10,000	1,000	50,000
Time zones	46, with 8 parts	46, with 8 parts	24, with 8 parts	2000
Soft time zones	16	16	16	
Holidays	24	24	24	100
Holiday types	8	8	8	8
Alarm history events	5,000	5,000	500	
Access history events	5,000	5,000	500	10,000
Automation zones	100	100	20	
Communication Paths	10	10	10	10
RS-485 LANs	2	2	1	2
DGPs (total/intelligent)	31/24	31/24	1/0	31/0
RASs	32	32	16	31/8
Standard Doors	up to 32		8	
Readers per door	1	1	1	6
Doors via Controllers	96 (intelligent doors)	96 (intelligent doors)	Not applicable	8
- Total doors	128 (32 + 96)	128 (32 + 96)	16	8
Standard Lifts	up to 2, with 10 floors per lift		1	
Lifts via Controllers	96	96	Not applicable	
Input shunt timers	32	32	16	
RAS area-LED mapping	Any areas	Any areas	Any areas	
RAS relay assignment	Via relay number	Via relay number	Via relay number	
Macro logic programs	48	48	16	
Total disarm areas	Yes	Yes	No	Yes
Area search mode	Yes	Yes	No	
Financial options	Yes	Yes	No	
SD card backup/restore	Yes	Yes	No	
Vault programming	Yes	Yes	No	
UltraSync support	Yes		Yes	
Dialler	Yes	Yes	No	No
Ethernet	Yes	Yes	Yes	Yes
USB	Yes	Yes	Yes	Yes
OSDP Devices				32
Max card data bit length	48 bits	48 bits	48 bits	128 bits
Scheduled Actions				100

* Supported product only ** When used in IP Direct Mode. Refer Tecom Compability Matrix for full view of functionality in various modes.



Download a full version of the Tecom Compatibility Matrix at www.interlogix.com.au

	Hills order number	ChallengerPlus TS-CHPLUS	Challenger10 TS1016	ChallengerLEPlus TS1016LEPLUS	Network Access Controller TS1066
Memory Modules					
TS1084 - Memory Module expands to 65,535 users	S7013A	✓	✓	✓	
Communication Devices					
TS0098 - IP LAN Adaptor	S3216A	Requires firmware version 3893 or greater			
TS1053 - 3G Communication Module	N/A	✓	✓	✓	
TS1054 - 4G Communication Module	S6360B	✓	✓	✓	
TS0840 - 4 way relay	S5019	✓	✓	✓	✓
TS0841 - 8 way relay	S5020	✓	✓	✓	✓
TS0842 - 16 way open connector	S5021	✓	✓	✓	✓
TS0893 - LAN Isolation interface	S5163	✓	✓	✓	
TS0896 - RS485 to Fibre Interface	N/A	Requires firmware version 2050-003 or greater			
TS1091 - Enhanced Communications licence	S3998A				
Data Gathering Panels (DGPs)					
TS1020 - Challenger10 DGP	S5016A	✓	✓	✓	✓
TS0820 - Challenger V8 DGP	N/A	✓	✓	✓	✓
TS0825E - Wireless DGP	N/A	✓	✓	✓	
TS0824 - Challenger V8 DGP, DC	N/A	✓	✓	✓	
TS0827 - Challenger V8 4-input	S5119	✓	✓	✓	✓
TS1061 - Dual Wiegand Interface	S7017A	✓		✓	✓
Controllers					
TS0862 - Smart single-door controller	S5087		✓	✓	✓
TS0866 - Intelligent four-door controller	N/A	Requires firmware version R110613.801 or greater			
TS0867 - Intelligent four-door controller	S5043	Requires firmware version R110613.801 or greater			
TS0869 - Intelligent four-lift controller	S5113	Requires firmware version L110613.803 or greater			
TS1066 - Network Access Controller	S7016A	✓			

Software	Version	Latest Firmware Support				
		Challenger V8	ChallengerPlus	Challenger10	ChallengerSE	ChallengerLE Plus
Forcefield™	8.0.0	8.128 or above	V10-07	V10-06	V10-06	V10-07
Security Commander	2.3	8.128 or above	n/a	V10-06	V10-06	n/a
Titan	3.5.1	8.128 or above	n/a	V10-06	V10-06	n/a
Tecom Mobile app	1.1.68	n/a	n/a	V10-06	V10-06	n/a
TecomPlus Mobile app	2.0.3	n/a	V10-07	n/a	n/a	V10-07
IP Receiver	1.49	8.128 or above	n/a	V10-06	V10-06	n/a
TecomC4	2019	V8-MFR.883 or above	V10-07	V10-06	n/a	V10-07
CTPlus	2.4	n/a	V10-07	V10-06	n/a	V10-07

Remote Arming Stations

Grow your security as your business grows

With a range of hardware options available for your Tecom system, you can scale your security as your business grows.

RAS Features Summary



TS1001



TS0006



TS0801



TS1162



CA111x Series



HID-27-SIGNO-O/W

RAS Model	LCD	Keypad	Card Reader	LEDs
TS1001	Yes	Yes		8
TS0003		Yes		4
TS0006		Yes		
TS0801/TS0802	Yes	Yes		8
TS0870x			Yes	2
TS1162		Yes		3
CA1110	Yes	Yes		16
CA1111	Yes	Yes		16
CA1115	Yes	Yes	Yes	16
CA1116	Yes	Yes	Yes	16
HID-27-SIGNO-O/W			Yes	

REMOTE ARMING STATIONS (RAS)



Touch Screen RAS

The intuitive menu makes it easy to program and control your Challenger system, whilst classic mode allows long-term users and installers the ability to program their system just as they do now. With no need to re-train users, the Touch Screen RAS is an easy choice for controlling and programming your Challenger system.

Full history and status messages can be viewed with a single touch and text entry is a breeze with a QWERTY keyboard. The large touch screen keypad makes the operation, programming, and troubleshooting of the Challenger system easier than ever before.

- Fully compatible with all Challenger panels
- Classic mode operation to match legacy RAS key sequences
- USB port for firmware upgrades
- Brushed aluminium finish
- Flush and surface mount options
- Scrambled keypad option for high security applications
- Easy-to-read history and status messages
- QWERTY key display for easy text entry

Ordering Information

Touch Screen RAS

TS1001

Touch Screen RAS



Heavy Duty Arming Station

The strong metal construction of the TS0006 ensures its strength and durability. The unit can be mounted on brick, metal work or in a custom enclosure and is supplied in kit form to accommodate these mounting options.

The 4 LED Arming Station can be used with the Challenger Panel or Access Controllers for alarm and access control functions specific to an area. The Arming Station's keypad can be used to enter a PIN to gain access to a single area or to turn security off and on. Such flexibility of operation can be achieved through programming.

- PIN code entry for access control
- PIN code entry to arm/disarm area or system
- Suitable for outdoor use
- Robust design
- Tamper resistant

Ordering Information

Heavy Duty Keypad

TS0006

Heavy duty keypad and combined card and PIN

Remote Arming Stations



LCD Arming Station

The CA111x series of keypads combines advanced remote arming station and keypad functionality, smart card reader (CA1115 and CA1116 only), ease of use, and elegant styling to what is the most visible element of your Challenger system.

- Optional built-in proximity card reader
- Integrated tamper detection
- Easy to read LCD
- Can display custom message when idle such as company name or emergency phone number
- Removable front cover
- The 16 area LEDs indicate the status of corresponding areas. On indicates that the area is armed, off is disarmed, and the LED flashes to indicate fault or alarm conditions.
- The text display on 4-line models (CA1111 and CA1116) may be configured for various hyphenation options.
- Customisable beeper tone
- Easy mounting with rugged metal mounting bracket and multiple conduits for wiring

Ordering Information

Smart Card Readers	
CA1110	16-Area, 2 Line LCD Arming Station
CA1111	16-Area, 4 Line LCD Arming Station
CA1115	16-Area, 2 Line LCD Arming Station and Smart Reader
CA1116	16-Area, 4 Line LCD Arming Station and Smart Reader



Slimline Arming Station

The keypad's performance and robust construction make it suitable for a wide range of applications, including dusty or wet environments (rated to IP67). It may be used as a Challenger system remote arming station.

- Robust moulded plastic housing
- Indoor or outdoor mounting
- Request to Exit input
- Open collector output (door relay/strike)
- IP67 rating

Ordering Information

3-LED Keypad	
TS1162	Slimline Keypad



8-Area Arming Station

The TS0801 Remote Arming Station has a clearly readable English text LCD for displaying system programming, alarm and access control functions. It can be mounted at a distance of 1.5km from the Challenger Panel or Access Controllers. The face of the Arming Station displays 8 programmable area status indicator LED's, while the LCD details alarms or preprogrammed scrolling text.

Area numbers, displayed on the front, have corresponding status indicator LED's. A LED flashes when an area is in alarm, is off when the area is disarmed, and is constantly lit when an area is armed. Dip switches on the Arming Station determine whether the area LED's represent the first 8 areas in a total of 16 or the second 8, depending on client requirements & the location of the Arming Station. When connected to a Version 9 system with fully expanded memory, the Arming Station LED's can be programmed to indicate the status of any area in an entire system.

- Suits existing Challenger sites requiring matching keypad replacement
- Easy to read LCD
- Can display custom message when idle such as company name or emergency phone number
- Backlit keys and LCD
- The 8 area LEDs indicate the status of corresponding areas. On indicates that the area is armed, off is disarmed, and the LED flashes to indicate fault or alarm conditions.

Ordering Information

8-Area Keypad	
TS0801	8-area keypad

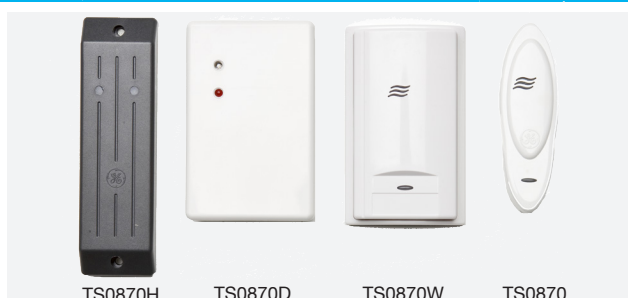
4 LED Arming Station

The 4 LED Arming Station was designed to be flush or surface mounted, with a sturdy plastic cover & hard-wearing buttons. Four LED's indicate access, alarm, ready & secure status of the area assigned to the TS0003. The 'access' LED indicates when an area is disarmed (LED will flash when a door is unlocked), 'secure' LED indicates when an area is armed, the 'alarm' LED indicates when an alarm has occurred in an area, and the 'ready' LED indicates an area is ready to be armed. However, when connected to a Version 9 system with fully expanded memory, the LED's can be programmed to indicate any area in the system.

Ordering Information

4 LED Arming Station	
TS0003	4 LED Arming Station

Readers and Cards



Smart Card Readers

The TS0870 can be configured as a Challenger LAN device – simple LAN addressing of the Reader determines the door number & direction of travel through a nominated door. Full redundancy is provided in a possible connection failure situation.

The Smart Card Reader may be configured as a standard Wiegand device & connected to any of the four Wiegand inputs on the Intelligent Door & Lift Controllers, which are connected to the Challenger. Full redundancy is provided in a possible connection failure situation.

- Indoor and heavy duty models available
- Program LEDs for different functions
- High security 4-byte security code and read/write encryption
- Can accommodate up to 65,535 user numbers
- Can be used to automatically arm and disarm areas, as well as to unlock doors
- Can be used as a Wiegand reader when connected to a Wiegand or magnetic stripe interface
- Built-in optical tamper switch

Ordering Information

Smart Card Readers/Cards/Programmer	
TS0870	Smart Card Proximity Reader
TS0870D	Smart Card Proximity Reader - Deco Plate.
TS0870H	Smart Card Proximity Reader for industrial situations
TS0870P	Smart Card Programmer
TS0870W	Smart Card Proximity Reader W/ Wall box mounting kit
TS1170	Smart Card - Gloss
TS1173	Smart Fob
TS1174	Smart Card with additional magnetic stripe functionality
TS1175	Smart Card, clam shell style, low cost
TS1176	Smart Card + Mifare 1k ISO Card
TS1179	Smart silicone wrist band



Multi-Class Reader

The HID Signo reader is a multi-technology card reader that enables Challenger customers to upgrade their Tecom 27-bit Indala-format cards to 13.56 MHz smart card technologies (iCLASS® or Mifare).

With the multiCLASS reader, a customer can phase in 13.56 MHz smart cards over time, within a single location or across multiple Challenger sites. Both old and new format cards can be used simultaneously.

In addition to helping transition from Tecom 27-bit Indala, the multiCLASS reader also supports all HID 125 KHz formats.

The multiCLASS reader is connected to a Challenger (or other) security system via either a standard Wiegand connection, or may utilise a secure OSDP connection when connected to the Network Access Controller. The reader features integrated tamper and beeper functionality.

- Simple Migration from the Tecom 27 bit technologies to iCLASS® or Mifare
- Open Architecture Design allows project specific formats and keys
- Provides flexible options for processing multi-technology cards and configuring the reader's audio/visual characteristics
- All HID card formats carryover
- Reads: Bluetooth mobile credentials, Seos, iCLASS SE®, iCLASS SR®, iCLASS®, MIFARE Classic, MIFARE DESFire EV1/EV2, HID Proximity®, Indala® Proximity, AWID Proximity, and EM Proximity

Ordering Information

Multi-Class Reader	
HID-27-SIG20-W	MultiClass Signo20 Tecom 27 bit Indala transition reader Wiegand
HID-27-SIG20-O	MultiClass Signo20 Tecom 27 bit Indala transition reader OSDP

Tecom Access Control Overview

An intelligent real-time alarm and access control monitoring unit designed to control access to four doors, the Four Door Controller supports many reader formats, including magnetic swipe and proximity. A host of programming options for the Intelligent Four Door Controller offer a high level of customisation.

Connectivity

Fitted as standard to the Intelligent Four Door Controller are 4 lock strike relays and 4 reader ports for Wiegand readers. All inputs for door contacts, an egress button, 'door open too long' and alarm inputs are provided with the Four Door Controller. Up to 12 controllers can be included in a Challenger system. If used in combination of lift and door controllers, the total remains 12. The Four Door controller board can be housed in an enclosure, which can be mounted up to 1.5 km from the Challenger panel.

Features

The Intelligent Four Door Controller can operate off-line with no degradation in performance, should communications with the Challenger panel fail. The controller also supports many reader technologies, including PIN, magnetic swipe, proximity and wiegand as standard, offering a wide range of options for any security situation.

- Extensive programming features can be used to program a sequence of unique events for a desired outcome (macro logic). For example, when a user badges a card lights in the area and can be programmed to turn on, or a roller door can be opened when a user badges at a particular reader. Other features which can be programmed using macro logic include HVAC and lighting.
- A relay can be programmed to a warning beeper which will activate at a pre-determined time before the access control door goes into a 'Door Open too long' alarm.
- Door locks can be monitored and their status sent to a printer or Challenger as an alarm.
- Access control procedures, like badging a card or entering a PIN, can be programmed to a function only within particular blocks of time or outside those times. For example, during a period deemed as high security risk, granting access may require a PIN and card to be presented at a reader. At another time of low security risk, access to the same area may be gained with only the presentation of a card.
- Access control doors can be interlocked. The operation of one door can disable the operation of another door to ensure security integrity. Outputs can be connected to display the interlocked condition of doors as required and inputs can be programmed to override interlock condition.
- Global anti-passback. An impressive feature which communicates reader information to all controllers on a Challenger LAN, which ensures that user movements through access control doors can be tracked throughout a Challenger system.
- Cards can be programmed for Dual custody where the presentation of one card has to be followed by the presentation of a specified other card before access will be granted. Privileged cards can be programmed to override anti-passback features and readers in 'reader disable' state. The 'reader disable' feature disables an access control door from normal operation. IN a prison situation where social disorder has broken out, this feature when employed, will prevent anyone but privileged card users from using those access control doors in 'reader disable' state.
- The Controller supports many different lock types, and relay programming can operate those locks in a variety of ways.
- All reader LEDs are fully programmable and can be programmed to display alarm or access statuses. Therefore an LED can be programmed to light up when access is granted or when an area is armed. The Intelligent Four-Door Controller has 2 outputs for LEDs on each reader port.

Features & Benefits

- Because doors do not always swing back into position to lock immediately after being opened, the Intelligent Four Door Controller has a Settling Time feature. A good example of this is bi-directional swinging doors. Once opened, the door will not secure until it has lined up with the door lock, thus enabling a bolt to slide into its housing at the top of the door. If the access control door does not settle before being opened again the timer will re-start.
- Controlling population within building areas can be achieved by a macro whose response can be programmed to count the number of users in a region. A reader is used to count the number of cards badged. This count is recorded, and compared against the region limit. In the case where the region limit is set to 18 the output can be programmed to respond in any way required, an alarm sounded or access denied after the 18th card has been badged.
- All times used by the Controller can be programmed to suit a situation. Shunt times, and DOTL times are just two examples. A time can also be programmed to cater for physically challenged users who require an extended door open period. When this is set all other times will be automatically adjusted.
- Standard Controller memory starts at 11,466 users and can be expanded to 65,536 provided the Challenger Panel is also fitted with the equivalent memory expansion module. A memory capacity of 500 time/date stamped events is standard in the Intelligent Four Door Controller for offline operation.
- The Intelligent Four Door Controller supports multiple card site codes and programmable offsets.
- Alarm control can be handled in a number of programmable ways. One way being the installation of on/off buttons used in conjunction with a reader or alternatively programming a desired number of card badges to trigger arming and disarming functions. Three badges may arm and one may disarm for example.
- System conditions can be programmed to operate outputs. Conditions such as low battery, mains fail and tamper can be programmed to trigger outputs when these states occur.
- A reader can be programmed to record in and out times against a job number. An LCD arming station connected to the Four Door Controller will ask for a job number after a card has been badged and access time recorded. The access and exit times are assigned to the job and card number. In situations where contract workers are entering and leaving a site their movement and labour costs can be tracked more accurately using this method.
- The Intelligent Four Door Controller can be programmed to unlock a door during set hours, and only do so after someone has entered the building.
- Where an access control door uses an exit button or PIR to unlock, this operation can be overridden when the security system is armed. In doing so, someone who might try to gain illegal access by triggering the PIR will not be able to unlock the door as the PIR has been disabled while the system is in an armed state.
- To extend the cable run to readers, a secondary LAN connection on the controller board allows for the addition of Smart Door Controllers and LCD Arming Stations. This has the effect of increasing the maximum reader distance up to 1.5km.
- All inputs are four state monitored. Tamper status is monitored during unarmed periods to detect accidental or intentional activation and generate an alarm.
- A 3Amp switch mode power supply powers the onboard door lock relays and charges two back-up batteries. Each door relay and card reader can consume up to 250mA. Ancillary connections can consume up to 750mA and comms can consume no more than 500mA.
- Tamper switch connections are built onto the Controller board. The Challenger enclosure is fitted with both front and rear tamper switches.
- A siren connection is built onto the Controller board.
- The Intelligent Four Door Controller reader ports can be programmed to support a range of third party reader formats such as 26 or 32 Bit Wiegand format, NAC, including bluetooth readers.
- The Controller dynamically tests the batteries contained within an enclosure. Fuses are also monitored and their status reported to the Challenger.
- The Intelligent Four Door Controller can be expanded to 255 programmable output relays with the connection of Tecom Relay boards.

Tecom Access Control

INTELLIGENT ACCESS CONTROL



Intelligent Four-Door Controller

An intelligent real time alarm and access control monitoring unit designed to control access to 4 doors, the Four-Door Controller supports many reader formats, including magnetic swipe and proximity. A host of programmable options for the Intelligent Four Door Controller offer a level of customisation not found in other access control panels.

The Intelligent Four Door Controller can operate off-line with no degradation in performance, should communications with the Challenger fail. The Controller also supports many reader technologies, including PIN, Magnetic Swipe, Proximity, & Wiegand as standard.

Extensive programming features can be used to program a sequence of unique events for a desired outcome (macro logic).

A relay can be programmed to a warning beeper which will activate at a pre-determined time before the access control door goes into an 'Door Open Too Long' alarm.

Door locks can be monitored & their status sent to a printer or Challenger as an alarm. Access control procedures, like badging a card or entering a PIN, can be programmed to function only within particular blocks of time or outside those times. Access control doors can be interlocked. The operation of one door can disable the operation of another door to ensure security integrity.

Global anti-passback – an impressive feature which communicates reader information to all controllers on a Challenger LAN to ensure tracking of movements.

Cards can be programmed for Dual custody, where the presentation of once card has to be followed by the presentation of a specified other card before access is granted. The Controller supports many different lock types, & relay programming can operate these locks in a variety of ways.

All reader LED's are fully programmable, & can display alarm or access status.

- Real-time alarm and access control on four doors
- Supports any card formats of up to 48 bits
- Onboard database for offline condition
- Up to 12 Intelligent Access Controllers can add 48 access control doors to a Challenger panel's 16 doors
- Antipassback
- Request-to-exit support for each door
- User counter, interlocking, card + PIN, 3 badge arming
- Supports wide range of third-party readers
- 4 relays onboard for lock control
- Up to 48 freely programmable outputs using macro logic equations
- Intelligent Access Controllers' onboard memory supports 11,466 users and can be expanded to 65,535 IUM users (the Challenger panel must use the same memory configuration)
- All reader LEDs are programmable, and can display alarm or access status
- Input devices can be monitored for tamper conditions (open or shorted) in addition to the default monitoring for sealed or alarm conditions
- Automatically unlock doors for a programmed time period (override time zone)

Ordering Information

Four-Door Controller	
TS0867	Four-Door Controller (includes built-in wiegand)
TS0867B	Four-Door Controller (includes built-in wiegand), board only



Intelligent Four-Lift Controller

The Intelligent Four Lift Controller can operate off-line, with no performance degradation, should communications with the Challenger panel fail. Many reader technologies, including PIN code, magnetic swipe, proximity and wiegand, are supported as standard, offering a huge range of options for any security situation.

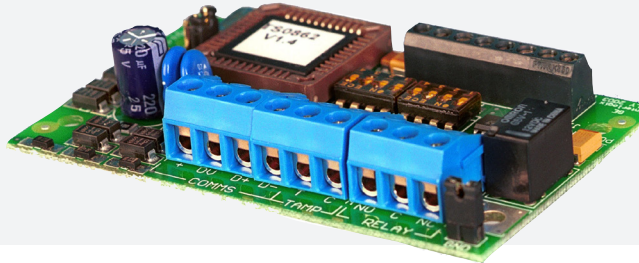
- The Intelligent Lift Controller can handle up to 4 separate lift cars with 64 floors per car.
- Each lift can have a combination of readers/keypads for access control procedures, such as card and PIN, just PIN or just card.
- The Intelligent Four Lift Controller can handle up to 110 programmable relays, four of which are standard onboard. Additional relay boards are connected to a built-in output control plug.
- Floor monitoring can be achieved by assigning inputs to lifts. Up to 256 inputs can be added via an Access Controller LAN with the connection of Data Gathering Panels and the 8-input expander. Each lift can be programmed to a bank of relays and inputs by selecting a starting floor and ending floor as well as a first relay and first input. Relays and inputs are then numbered sequentially.
- Each lift can have a security override switch, which allows users free access to an override floor group.
- Intelligent Four Lift Controller will continue to operate without deterioration in performance should it become disconnected from the Challenger panel.
- Extensive programming features can be used to program a sequence of unique events for a desired outcome (macro logic). Other features which can be controlled using macro logic include HVAC and lighting.
- Standard Controller memory starts at 11,466 users and can be expanded to 65,536 users provided the Challenger Panel is also fitted with the equivalent memory expansion module. A memory capacity of 500 time/date stamped events are standard in the Intelligent Four Lift Controller for offline operation.
- The Controller dynamically tests the batteries contained within the enclosure. Fuses are also monitored and their status reported to the Challenger.
- The Intelligent Four Lift Controller has onboard reader ports which can be programmed to support a range of third party reader formats, such as 26 or 32 Bit Wiegand format.
- Tamper switch connections are built onto the Controller board. The enclosure is fitted with both front and rear tamper switches.
- Monitored siren connections are built onto the Controller board.
- The Intelligent Four Lift Controller has 16 inputs onboard which are fully programmable as floor monitoring or alarm inputs. The number of inputs can be expanded to 256 with the addition of Data Gathering Panels.

Ordering Information

Four-Lift Controller

TS0869

Intelligent Lift Controller



Smart Door Controller

The outstanding feature of this interface is its offline database of 20 users, which can be programmed from a RAS or card reader.

Programming from an Arming Station follows a simple process of identifying the equipment & placing the unit into program mode. To program from a reader, a card is required to be badged a certain number of times to include & erase card information.

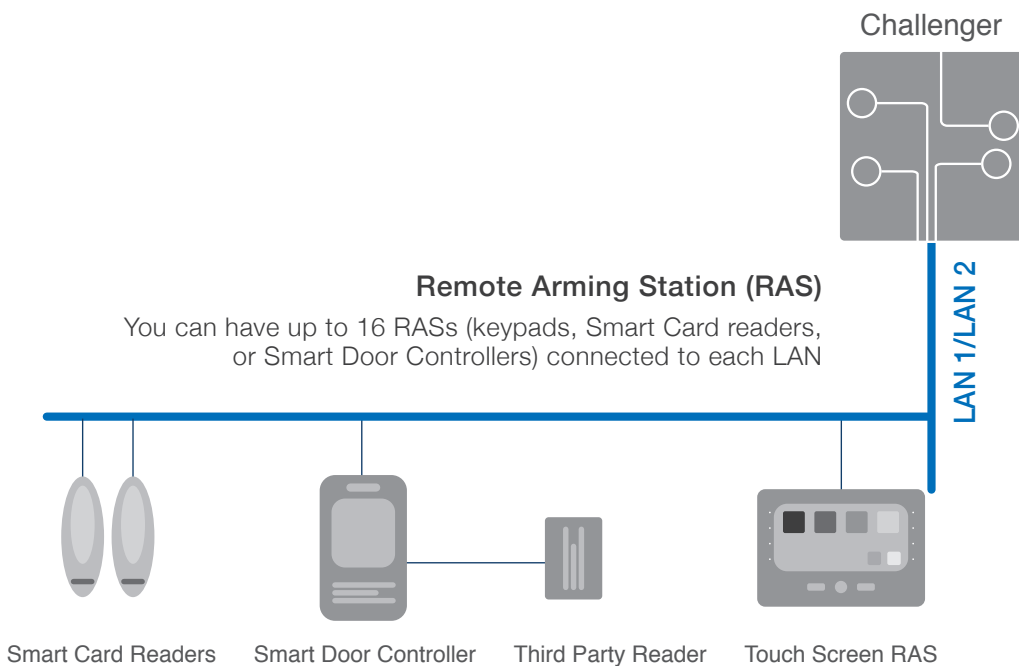
A separate power supply can be connected to maintain the unit should the power cable be cut between the Challenger Panel or Access Controller & the TS0862.

- Request-to-exit (RTE) input
- Includes one relay for unlocking a door
- Provides reader LED control
- Up to 20 user cards can be stored into the TS0862's onboard memory. Access control for these 20 users is maintained even if the TS0862 loses communication with the control panel.
- The TS0862 may be connected to the RS-485 data bus for either a Challenger panel or an Intelligent Access Controller, and is polled as a remote arming station (RAS)

Ordering Information

Smart Door Controller	
TS0862	Smart Door Controller

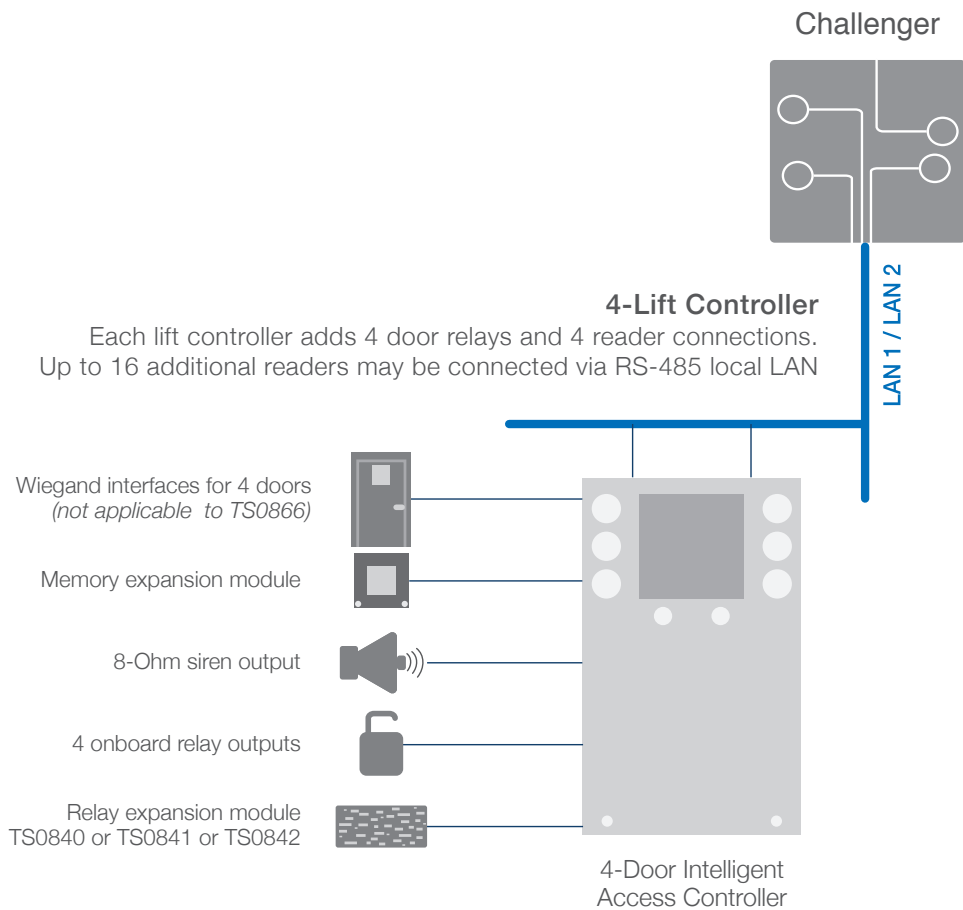
System diagram



Tecom Access Control

SYSTEM DIAGRAM & ACCESSORIES

System diagram



Accessories

Accessories	
TS0884	8 MB Memory expansion module
TS0893-96	LAN Devices Range
TS0840	4-way Relay Board
TS0841	8-way Relay Board
TS0003	4 LED RAS
TS0006	Heavy Duty 4 LED Arming Station
TS0801	8-LED Arming Station
TS0862	Smart Door Controller

Destination Lift Control

High Level Lift Interface (HLLI) to KONE and Schindler lift control systems

The Aritech High Level Lift Interface (HLLI) provides advanced integration of your Challenger access control solution to KONE and Schindler destination lift control systems. Passengers benefit from reduced wait and travel times, less-crowded lift cars and fewer stops per trip. Building tenants can also benefit as traffic flow in the lobby improves.

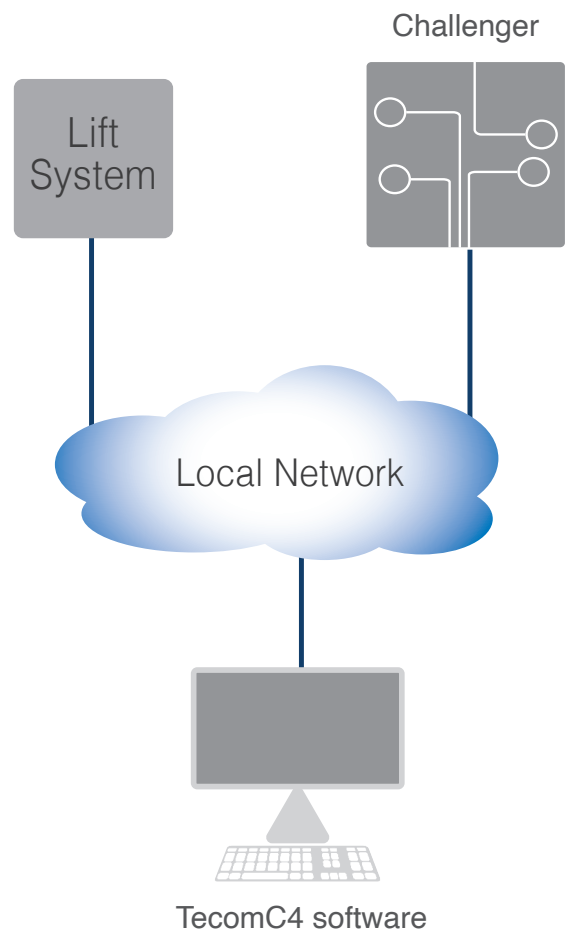
TecomC4 provides a seamless interface between the access control functionality of the Challenger panel and the destination lift system through a consistent user interface.

With a destination control system, the user specifies their desired floor from a destination panel after badging their card, instead of just pressing an up or down button. The destination control system then assigns a particular lift to get the user to the desired floor in the quickest time (and fewest stops on the way).

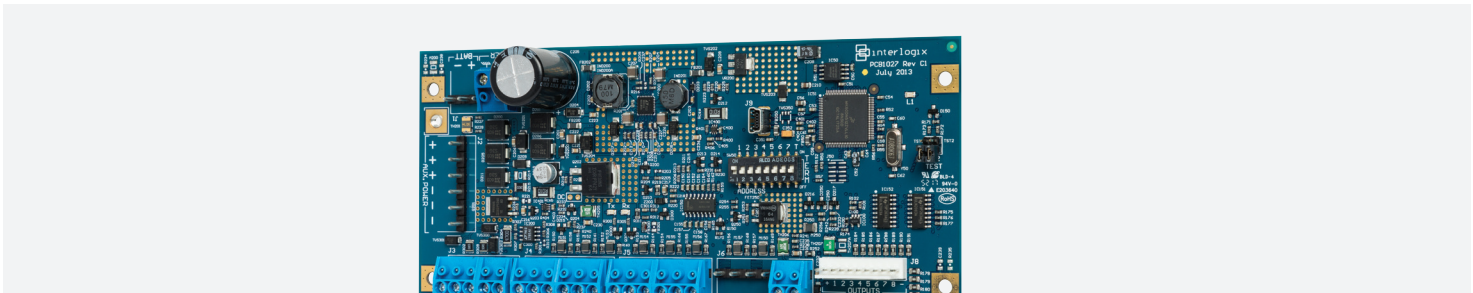
- Supports high level interface to destination control lift systems from KONE Access Server and Schindler PORT
- Stand-alone solution which means easy setup with no user interaction required, after initial setup

Ordering Information

Smart Door Controller	
TS-C4-KONE	KONE Access Interface
TS-C4-SCHI	Schindler Lift License



DATA GATHERING PANELS (DGPS)



8-Input DGP

The Analogue Data Gathering Panels (DGPs) are used to expand the number of inputs and outputs (or relays) on the Challenger system. It brings brand-new features to Challenger10 and ChallengerPlus systems, and is backwards compatible with Challenger V8 systems.

The Challenger system uses end-of-line (EOL) resistors on input circuits to monitor the condition of alarm input devices. In a Challenger V8 system, only one value of EOL resistor could be used. When used on a Challenger10 or ChallengerPlus panel, a TS1020 DGP can be used with a variety of EOL resistor values. This flexibility can greatly reduce the cost of upgrading an existing intrusion-detection system to a Challenger10 or ChallengerPlus system.

- A wide range of end-of-line (EOL) resistor values
- The resistance values of inputs connected to the TS1020 can be displayed via LCD keypad
- Siren output can be used as a general purpose output
- Input reset timer
- Intelligent onboard power supply allows the DGP's power usage and battery charging to be checked via LCD keypad

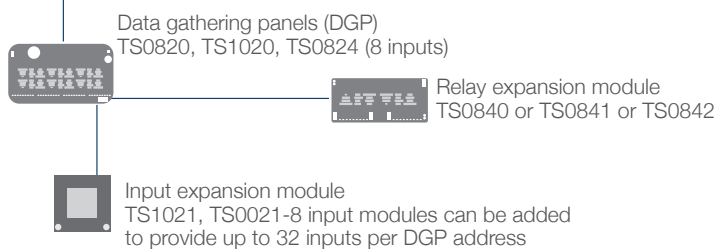
System diagram



RS-485 system LAN provides for the following branch functionalities. Use two-pair twisted, shielded data cable such as Belden 8723.

Data Gathering Panels (DGP)

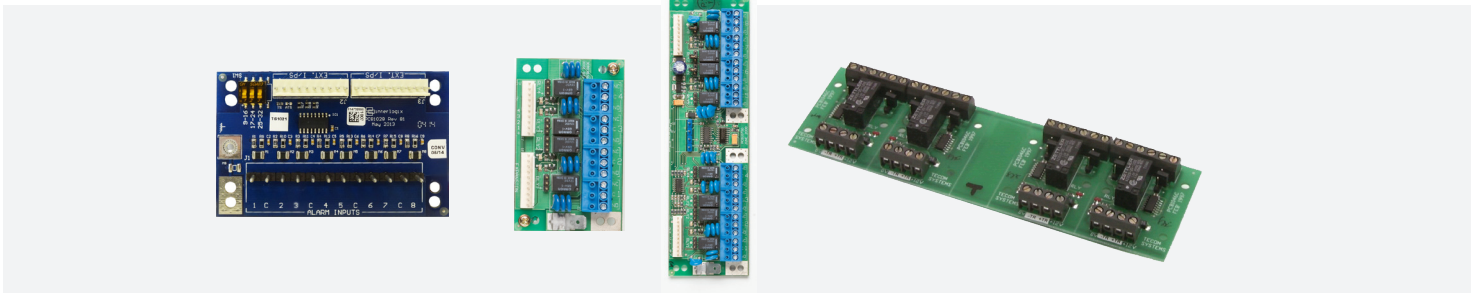
DGPs add inputs to the system. Relays are added via relay expansion modules



DGPs can expand the number of zone inputs to 1008 per system, and relays (outputs) to 512 per system

Ordering Information

Data Gathering Panel	
TS1020	Analogue DGP (Data Gathering Panel), with enclosure
TS1020B	Analogue DGP (Data Gathering Panel), board only
TS0307	Enclosure



Expander Boards

A single Data Gathering Panel has 8 inputs standard – expansion can be achieved in increments of 8 up to a total of 32 inputs on one DGP. This expansion is achieved with the connection of the TS1021 or TS0021 8 Input Expander. Three expansion modules in addition to what is already allocated on the DGP board gives a total of 32 inputs.

- 8 input expander can increase number of input devices to 32 in a single DGP
- Expand total number of inputs in a system to 1008
- Four or eight Form C relay outputs on board
- Expand total number of outputs in a system to 512
- Buffered relay can extend capability of open collector output on RAS

Ordering Information

Expander Boards	
TS0021	8 Input Expansion Module, Board only with Connection Cable
TS1021	8 Input Expansion Module, Board only with Connection Cable (compatible with TS1020 DGP only)
TS0840	4 Way Relay Board, Board only
TS0841	8 Way Relay Board, Board only
TS0843	4 Way Buffered Relay Board, Board only

Compatibility Matrix

	TS0021	TS1021
TS1020 - Analogue DGP (requires firmware version 5170 or greater)	✓	✓
TS0820 - Challenger V8 DGP	✓	
TS0824 - Challenger V8 DGP, DC power	✓	
TS0866 - Intelligent four-door controller	✓	

Hardware

WIRELESS DATA GATHERING PANELS (DGPS)



Inovonics Echostream Wireless DGP

The TS0825E Wireless Data Gathering Panel (WDGP) is used to provide cable-free installation of devices to your Challenger system such as PIRs, smoke detectors, and glass break detectors while supporting single and multi-button pendants and remotes.

The TS0825E helps eliminate problems such as wiring security devices to Challenger through concrete walls or floors, securing heritage buildings (no drilling allowed) or wiring to detached structures such as sheds or garages. (Eliminate cost of trench digging). Multi-button remotes are typically used to trigger an input within Challenger to activate a relay such as opening a roller door, or wirelessly arm/dis-arm an area programmed within the Challenger.

The TS0825E also enables the use of wireless panic pendants to trigger duress alarms.

- Expand the Challenger by up to 16 or 32 inputs.
- 1.5km from the Challenger panel
- Works with Inovonics repeaters to extend wireless range.
- 1,024 duress inputs
- Transmitter ID is registered into a database held in the TS0825E WDGP
- Rear and front tamper protection
- IP55 plastic enclosure
- Supervision (heartbeat check) on wireless detection devices
- Reports signal margin to Challenger
- Reports duress and detector battery low

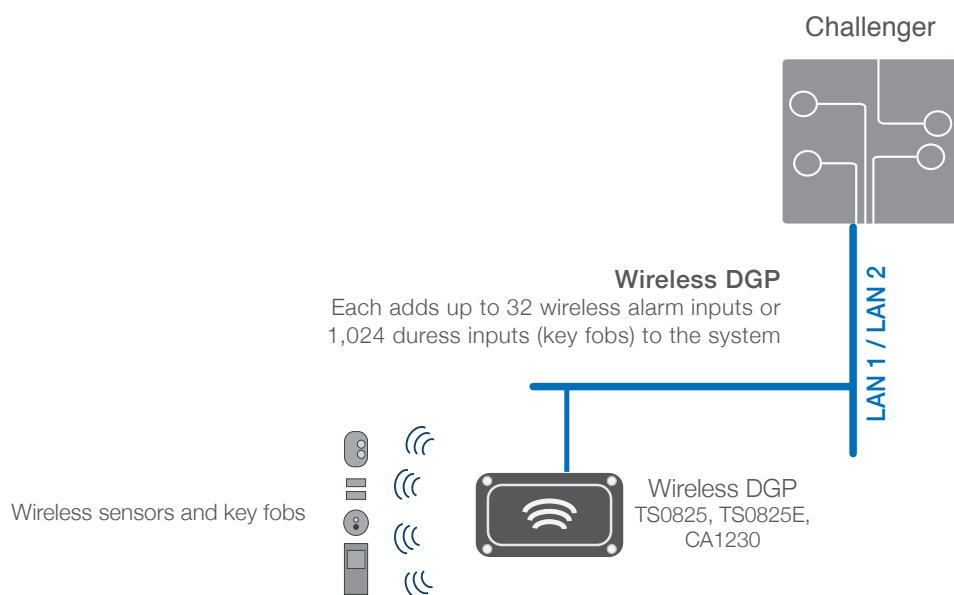
Ordering Information

3-LED Kaypd

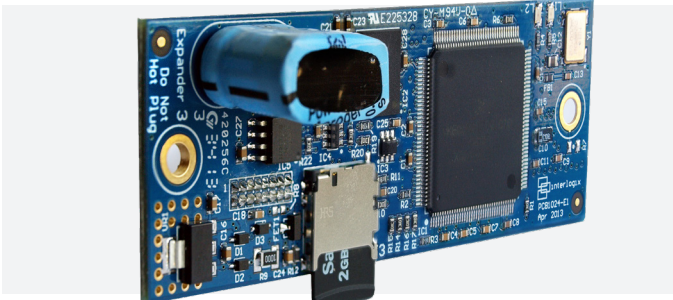
TS0825E

Inovonics Echostream Wireless DGP

System diagram



MEMORY EXPANSION AND OUTPUT DEVICES



Memory Expansion Module

The Tecom Memory Expansion Module for the Challenger solution allows customers to expand their system by thousands of users.

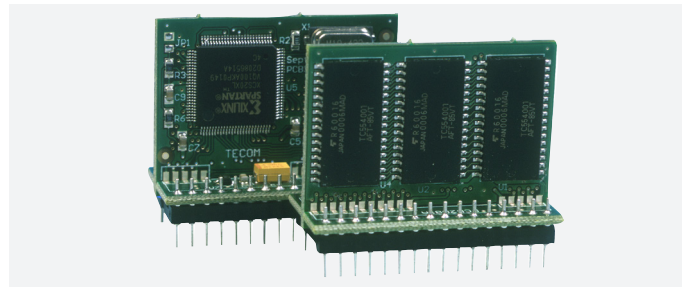
A Challenger10 panel can accommodate 2,000 users with personal identification numbers (PINs) names. The TS1084 Memory Expansion Module expands the number users to 65,535, all of whom can have PINs. The module contains two copies of its database: one active copy and one backed up to a microSD card (supplied). During normal operation the TS1084 will check the database on the microSD card to confirm that the active database is not corrupt. If a problem is detected, the module will attempt to repair itself and will continue functioning without interruption.

- Increase user capacity of panel
- Self healing
- Contains two copies of its database
- MicroSD card is used to automatically repair the memory module in case of corruption
- Firmware is remotely upgradable
- Increased operating speed compared with legacy IUM modules used on Challenger10

Ordering Information

Expander Boards

TS1084	Memory Expansion Module
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Expanded IUM Module (version 8 only)

The TS0884 memory expansion module is used to increase the user capacity of Challenger. The TS0884 have the additional functionality of being an Intelligent User Module (IUM) that enable a Challenger system to handle multiple card formats and protocols simultaneously. Unknown card formats can be added to the system and assigned to users with ease.

- Increases the total number of PIN or card users on the system
- Allows card formats up to 48 bit
- Adds to the number of door or floor groups, holidays, and access/alarm events on a system
- Used on 4-door controller and 4-lift controller

Each part of the system must have the same memory size as the Challenger panel. The use of IUM is necessary in large systems that may exceed the maximum users with PIN that are allowed in smaller standalone systems.

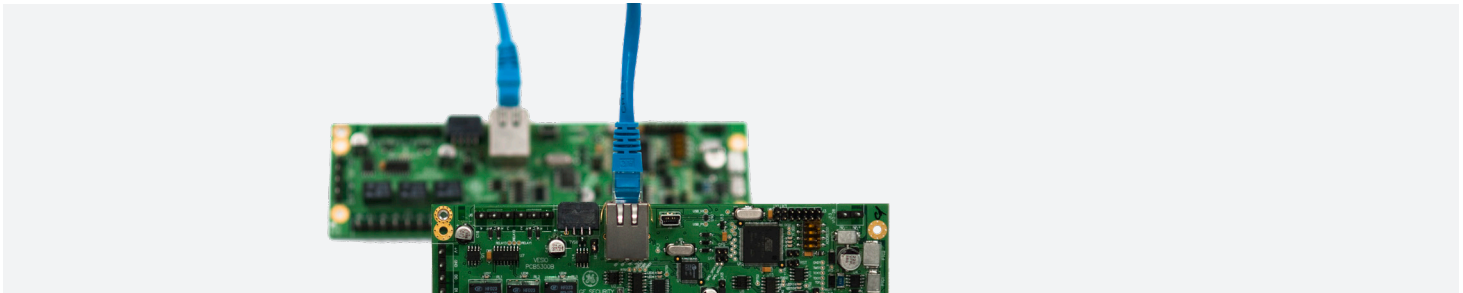
Ordering Information

Memory Modules

TS0884	Memory expansion module 8 MB
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Hardware

LAN DEVICES



Challenger IP LAN Adaptor

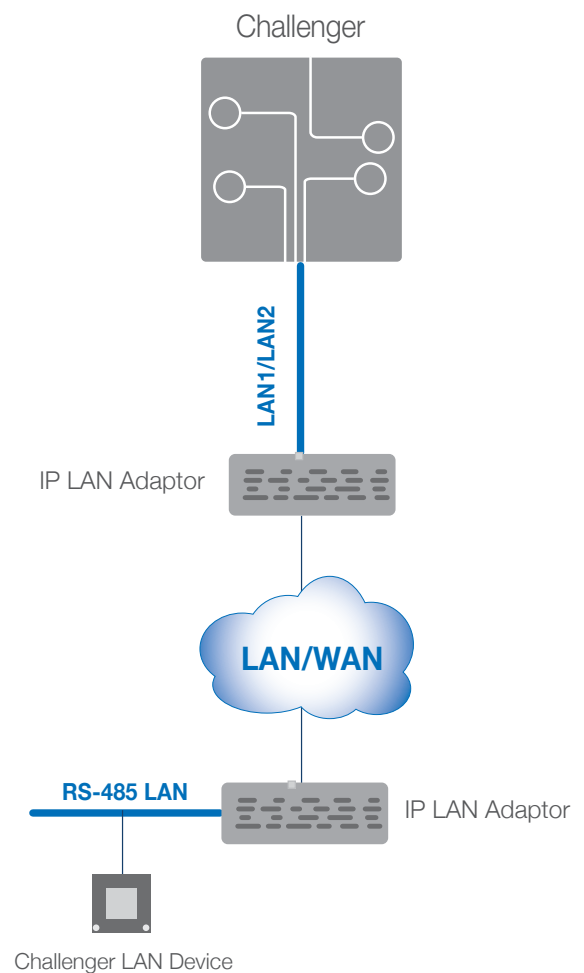
System Diagram

The TS0098 module allows Challenger RS-485 LAN data to be carried over an IP network. This provides an IP connection between a Challenger panel and its LAN devices such as Remote Arming Stations (RAS) and Data Gathering Panels (including Intelligent Access Controllers) reducing the need for dedicated wiring of expensive two-pair twisted, shielded data cable (Belden 8723).

It is perfect for connecting a panel to a remotely located RAS, DGP or Door/Lift Controller where it is costly to run cable but where IP connections are readily available (subject to network performance requirements).

TS0098 modules provide securely-encrypted IP communications via a unique 128-bit encryption key.

- IP communication for Challenger LAN
- 128-bit AES (Advanced Encryption Standard) secure encrypted communications
- Connect Challenger LAN devices RAS, DGP, Door/Lift Controllers over IP network infrastructure
- Link Challenger RS-485 LAN segments together over IP infrastructure
- Up to 31 ELM modules on a single Challenger LAN for up to 15 DGPs and 16 RASs.
- Switchable between SLM (Start of Line Module) and ELM (End of Line Module) mode
- Built-in Web server allows convenient device configuration and diagnostics from standard internet browser
- Network Test Tool provided to check network latency and suitability

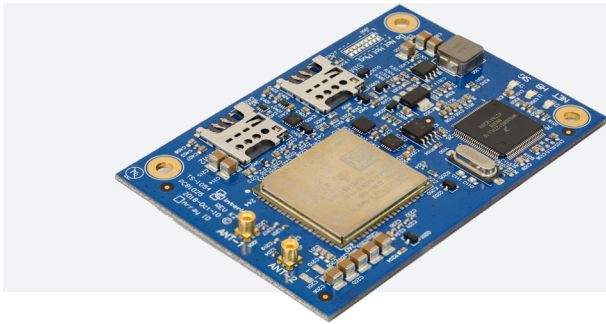


Ordering Information

IP LAN Adaptor

TS0098 Challenger IP LAN Adaptor

COMMUNICATION DEVICES

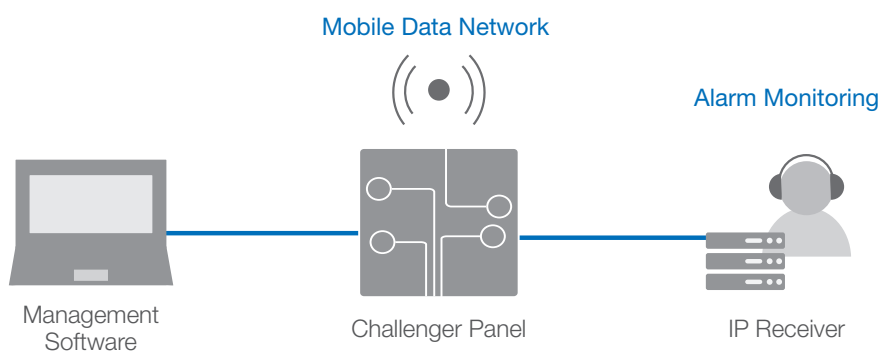


4G Communication Module

The 4G Communication Module is an expansion module which allows Challenger panels to communicate over 4G wireless networks.

The 4G Communication Module connects directly to Challenger control panels and fits natively to the powerful Challenger communication path framework. This allows the 4G Communication Module to be used for multiple connection types (e.g. alarm monitoring and management software) and act as the primary or redundant connection.

- Report alarms.
- Connect to supported management software packages.
- Upload and download panel configuration.
- Physically connects directly on to Challenger control panel.
- No additional housing or power supply required.
- Act as primary or backup connection.
- High speed communication. Speed is typically limited by bandwidth of the cellular data connection.
- Always on, constantly polled connection. All communication is sent and received instantly.
- AES128/256 encryption.
- Remote firmware upgrade.

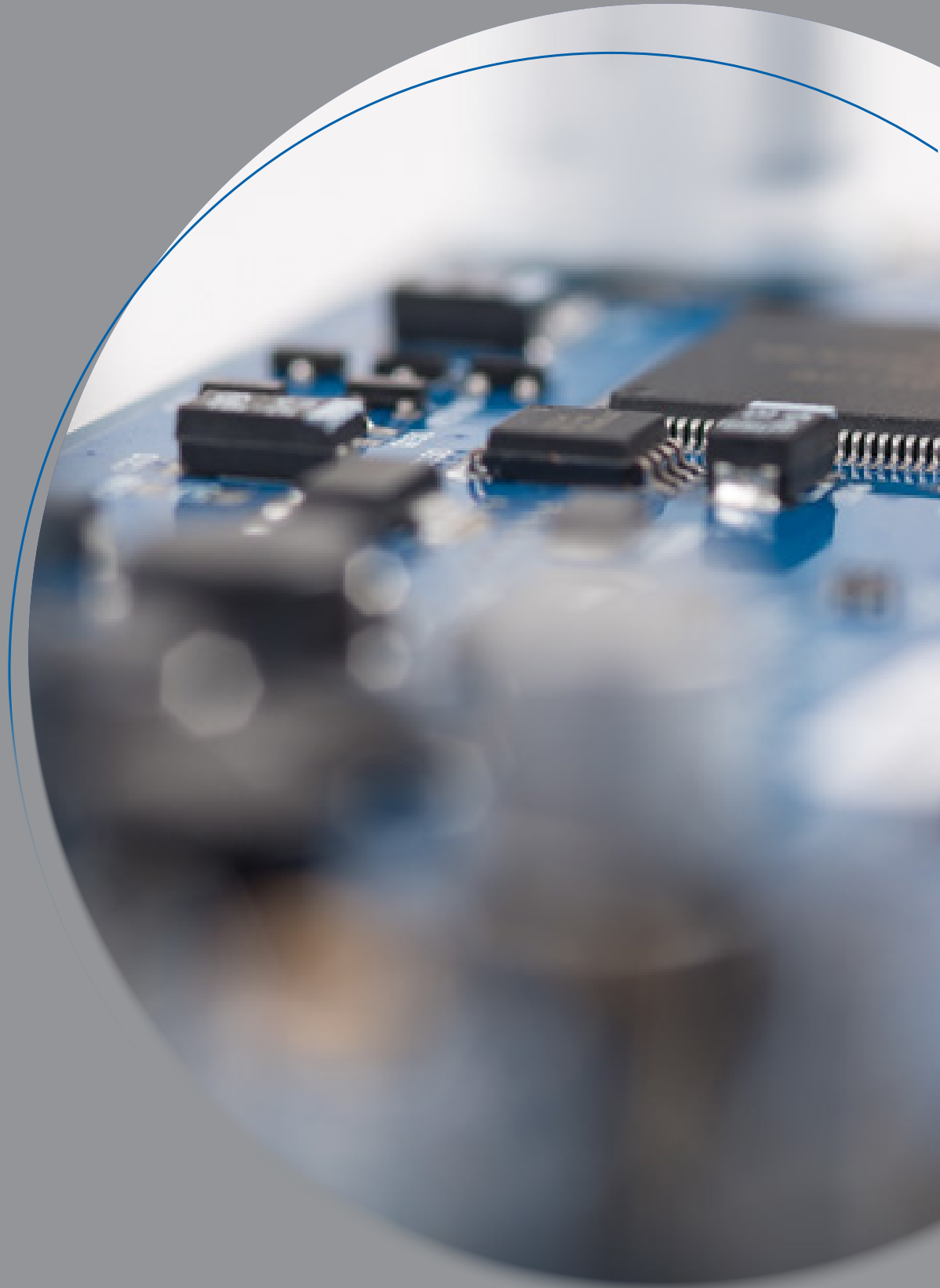


Ordering Information

4G Communication Module

TS1054	4G Communication Module
TS1054DS	4G Communication Module - Dual SIM, UltraSync enabled (Australia only)

Hardware Accessories



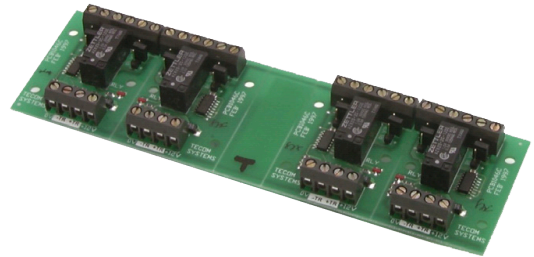
Hardware Accessories

4 Way Buffered Relay Board

The 4-Way Buffered Relay Board provides 4 double pole, double throw relays to activate physical devices from either positive or negative level sensitive triggers. It can be used as a whole unit of 4 relays or snapped apart along deep ridges pressed into the board to be used as single or double relays. When used as a set of 4, a power track running the full length of the board provides common power across the relays from a single power connection.

Relays can be connected to anything which is electrically controlled eg. lighting circuits, air conditioners, pump motors & generators etc.

Note: These relays do not connect to the 10 Way Expansion connector on the Challenger Panel, Access Controllers, or Data Gathering Panels.

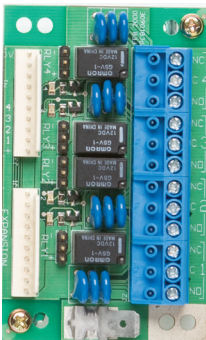


Ordering Information

Accessories

TS0843

4 Way Buffered Relay Board, Board only



4 Way Relay Board

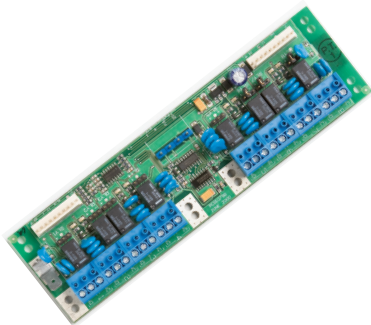
Relay boards are connected to a ten-way plug on the Challenger, Access Controllers, or DGP's to expand relay capacity. The TS0840 provides an additional 3 dry contact relays to the Challenger Panel & 4 relays to the Access Controllers, or a possible 8 on a TS0820 DGP. When fitted to a Challenger Panel or Access Controller, the TS0840 cannot be combined with other relay boards. Leads for connection are supplied.

Ordering Information

Accessories

TS0840

4 Way Relay Board, Board only



8 Way Relay Board

Relay boards are connected to a ten-way plug on the Challenger, Access Controllers, or DGP's to expand relay capacity. The TS0841 provides an additional 8 dry contact relays to the Challenger Panel Access Controllers, & TS0820 DGP's. The TS0841 & TS0842 can be used in combination, providing the maximum output count is not exceeded. Leads for connection are supplied.

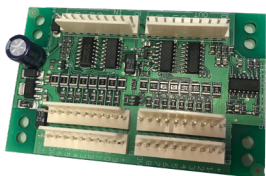
Ordering Information

Accessories

TS0841

8 Way Relay Board, Board only

16 Way Open Collector Controller



The TS0842 provides an additional 16 open collector outputs to the Challenger Panel, Access Controller, & DGP. The TS0841 & TS0842 can be used in combination, provided the maximum output count is not exceeded. Open collector outputs differ from relay contacts in that they provide a short circuit to ground. Leads for connection are supplied with relay boards.

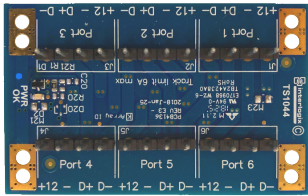
Ordering Information

Accessories

TS0842

16 Way Open Collector Controller

Hardware Accessories



Power Distribution Board

The Power Distribution Board provides a simple means of star connecting Challenger LAN devices. Fitted with a single protected input port and five paralleled output ports, either power and LAN communications or power alone can be connected.

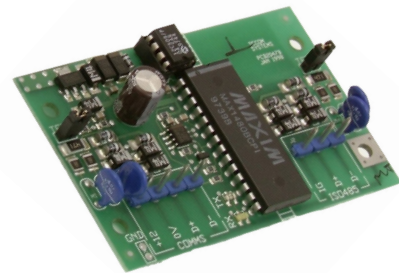
The Power Distribution Board is a versatile unit for keeping wiring in place & easily traceable back to their source.

Moving the jumper position on the board will determine power and/or LAN communication connection to the TS0844.

Ordering Information

Power Distribution Board

TS1044 Power distribution module



LAN Isolation Interface

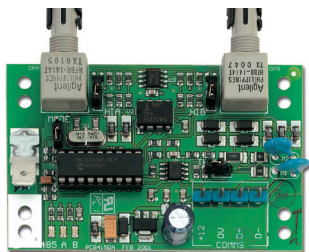
The Challenger system utilises a special derivative of RS485 for LAN communication. On occasions there may be a need to electrically isolate signals between two points, achieve distances to remote devices exceeding 1.5km, provide self-monitoring loops and higher noise immunity with intrinsic prevention against cable breaks.

This device is used to electrically isolate the Challenger communication LAN where voltage differentials may exist, isolating the two sides of the LAN by 1500 Volts. Typically, this device would be used to isolate devices in two buildings.

Ordering Information

LAN Isolation Interface

TS0893 Data bus isolator/repeater



RS485 LAN to Optical Fibre Interface

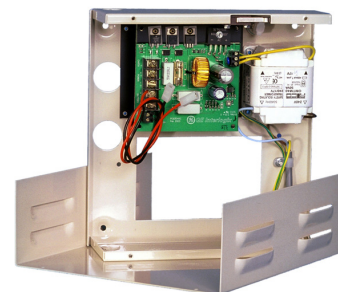
This unit converts the Challenger LAN to Optical Fibre. One or two optical fibre connections can be used with this interface. When using one optical fibre connection, the TS0896 has the ability to be multi-dropped; when using two fibres, the TS0896 must be wired in a 'point to point' configuration.

Ordering Information

Optical Fibre Interface

TS0896 RS485 LAN to Optical Fibre Interface with enclosure

TS0896B RS485 LAN to Optical Fibre Interface, board only



Tecom 2AMP Power Supply & Battery Box

A linear power supply used to supply power to remote products at 13.8 Volts DC. Enclosed in a metal box with room for a 6.5AH battery & tamper features, the enclosure can be mounted directly over a standard twin GPO outlet. The TS0073 is ACA certified & comes with a 1 metre long, 3-pin, main cord & onboard battery charging facilities. Output current is regulated & an internal fuse protects the battery from excessive loads.

Ordering Information

Power Supply & Battery Box

TS0073 12V DC Power Supply and Battery Box



Smart Cards / Keyfobs

The Aritech Smart Cards are slim line & identical in thickness to standard credit cards. The Aritech Smart Fobs are slimline and small enough to fit on a keyring. Both the Smart Chip & Antenna are embedded inside the card/keyfob, providing a completely smooth finish with proximity operation. Printing directly to all surfaces on both sides of the card except for TS1175 using any industry standard card printer is possible.

Production of the card layout, image acquisition, backgrounds & printer connection is also an available option with the Titan Software. Using Titan, the card may be programmed & printed.

Card/Keyfob security is extremely high with the ability to program a unique 4 billion, 4 byte, combination site code for each customer. The Smart Card and Keyfob, in conjunction with the Smart Card Programmer & Reader, gives you stand-alone credit applications.

Ordering Information

Smart Card Readers

TS1170	Smart Card - Gloss
TS1173	Smart Fob
TS1174	Smart Card with additional magnetic stripe functionality
TS1175	Smart Card, clam shell style, low cost
TS1179	Smart silicone wrist band

Smart Card Programmer

The Smart Card Programmer security is extremely high with the ability to program a unique 4 billion, 4 byte, combination site code for each customer. This allows the memory-based card to open or unlock based only on the correct 4 byte code. Each byte can consist of a number from 0 – 255.

Once a 4 byte code has been created, downloaded to the Programmer, and the cards are programmed, it is not possible to read the memory on the card or even recognise the card memory at any other Reader or Programmer combination.

Communications between Titan & the Programmer may also be password protected to prevent site codes from being uploaded from the Programmer into another Titan machine.

Ordering Information

Smart Card Programmer

TS0870P	Smart Card Programmer
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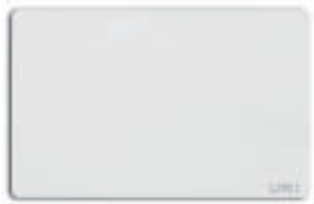
Metal Enclosures

A range of metal enclosures is available in various states to assist installers in non-standard installations. The universal enclosures (TS0307) utilises the unique mounting system to save installers' time.

Ordering Information

Enclosures

TS0307	Enclosure, metal, universal
TS0327	Enclosure, metal, small



Hardware Accessories

Board Sizes

Part Number	Description	A size	B size	BB size	C size	D size	E size	F size
TS1020B	Analogue Data Gathering Panel	Yes						
TS0021	8 Input Expansion Mmodule		Yes					
TS0827	4 Input DGP		Yes					
TS0840	4 Way Relay Board		Yes					
TS0842	16 way Open Collector Board		Yes					
TS0844	Power Distribution Board		Yes					
TS0893	LAN Isolation Interface		Yes					
TS0896B	RS485 Fibre Interface		Yes					
TS1021	8 Input Expander		Yes					
TS0098	Challenger IP LAN Adaptor Interface			Yes				
TS0841	8 Way Board			Yes				
TS1041	Eight-Way Clocked Relay Card			Yes				
TS1016B	Challenger10 Control Panel				Yes			
TS-CHPLUSB	ChallengerPlus Control Panel				Yes			
TS0867B	Intelligent Four-Door Controller					Yes		
TS0869B	Intelligent Four-Lift Controller					Yes		
TS1066	Network Access Controller						Yes	
TS1061	Dual Wiegand Interface							Yes

Board Size	Dimensions
A size	85 x 176.5 mm
B size	80 x 52 mm
BB size	176 x 52 mm
C size	210 x 220 mm
D size	260 x 220 mm
E size	255 x 109 mm
F size	128 x 78 mm



Tecom Challenger kits.
It just makes sense with Tecom.



An open platform is a smart way to drive simplicity, giving you the flexibility to manage your entire operation from a single interface.

TecomC4 is the management software solution you need to cope with the evolution of integration management. It gives owners, operators, facility and security managers a clear view and control over CCTV, Intrusion and Access Control functions, protecting property, staff and visitors.

Available at all
Hills branches
1300 445 571
www.hills.com.au

Hills order number	Aritech product code	Kit includes
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Challenger Panel Kits

S112482	TS-CHPLUS-KIT	ChallengerPlus Kit With 16 Area Arming Station 1 x ChallengerPlus control panel 1 x 16 Area Arming Station (4 x 16 LCD)
S113397	TS-CHPLUS-4D	ChallengerPlus Kit With 16 Area Arming Station & 4 standard doors 1 x ChallengerPlus control panel 1 x 16 Area Arming Station (4 x 16 LCD) 2 x 2 Weigand Interface Unit
S112531	TS1016LEPLUS-KIT	ChallengerLEPlus Kit With 16 Area Arming Station 1 x ChallengerLEPlus control panel 1 x 16 Area Arming Station (4 x 16 LCD)

Door Controller Kits

S7012A	TS0867K	4 door controller kit with 2 Standard Readers 1 x Intelligent 4-door controller 2 x Tecom Smart Card Readers
S7013A	TS0867KH	4 door controller kit with 2 Heavy Duty Readers 1 x Intelligent 4-door controller 2 x Tecom Heavy Duty Smart Card Readers

Network Access Controller (NAC) Kits

S114662	TS1066-4K4DR	4 Door NAC With 4 Standard Tecom Readers 1 x 4 door Network Access Controller 4 x Tecom Smart Card Readers
S114663	TS1066-4KH4DR	4 Door NAC With 4 Heavy Duty Tecom Readers 1 x 4 door Network Access Controller 4 x Tecom Heavy Duty Smart Card Readers
S7020A	TS1066K8DR	8 Door NAC With 8 Standard Tecom Readers and relay card 1 x 8 door Network Access Controller 8 x Tecom Smart Card Readers 1 x 4-Way Relay Card
S7021A	TS1066KH8DR	8 Door NAC With 8 Heavy Duty Tecom Readers and relay card 1 x 8 door Network Access Controller 8 x Tecom Heavy Duty Smart Card Readers 1 x 4-Way Relay Card

TecomC4 Management Software

A reminder that TecomC4 allows you one free Tecom Challenger panel license per site. Additional TecomC4 licences can be purchased separately. Please visit www.interlogix.com.au/tecomc4 for more information



Part Numbers & Descriptions

Product Code	Hills Order Code	Name
Panels		
TS1016	S3849A	Challenger10 Control Panel
TS1016B	S3846A	Challenger10 Control Panel, board only
TS-CHPLUS	S3849B	ChallengerPlus Control Panel
TS-CHPLUSB	S3846B	ChallengerPlus Control Panel, board only
TS1016LEPlus	S6361A	ChallengerLEPlus
RAS		
CA1110	S2311	16 LED Arming Station, 2x16 LCD
CA1111	S2312	16 LED Arming Station, 4 x 16 LCD
CA1115	S2313	16 LED RAS, 2 x 16 LCD with Reader
CA1116	S2314	16 LED RAS, 4 x 16 LCD with Reader
TS0003	S5002	4 LED Arming Station
TS0006	S5005	4 LED Arming Station, Heavy Duty
TS0801	S5001	8 Area Arming Station
TS1001	S3925A	Touchscreen RAS
TS1162	S3460A	Slim Line Arming Station
Interface Boards		
TS0094 *	S5013	Interface, V8 Printer Challenger Tecom
TS0098	S3216A	Interface - Challenger IP LAN Adaptor
TS0099 *	S3071A	Enhanced Challenger TCP/IP Interface
TS0890 *	S5110	Interface, Integration Unit Challenger Tecom
TS0893	S5163	Interface, LAN Isolation Challenger Tecom
TS0894 *	S5154	Interface, RS485 to RS232 Challenger Tecom
TS0896	S32385	Interface, RS485 to Fibre Challenger Tecom
TS0896B	S32385	Interface, RS485-Fibre, Board Challenger Tecom
TS1053 *	S6360A	3G Communications Interface
TS1054	S6360B	4G Communications Module
TS1054DS	S6360B	4G Communications Module - Dual SIM, UltraSync enabled (Australia only)
Door and Lift Controllers		
TS0862	S5087	Panel, Smart Door Controller Challenger Tecom
TS0862RAW	S1783	Panel, Smart Door Controller RAW Data, Challenger Tecom
TS0866 *		Panel, 4 Door Controller Challenger Tecom
TS0866B *		Panel, 4 Door Controller Board Only Challenger Tecom
TS0867	S5043	Panel, Intelligent 4 Door Controller Challenger Tecom
TS0867B	S5180	Panel, Intelligent 4 Door Controller Board Challenger Tecom
TS0867S	S8475	Panel, Firmware, 4DC Challenger

* discontinued

Product Code	Hills Order Code	Name
TS0868IP-KONE *	S1895A	Aritech Kone IP HLLI
TS0868IP-OTIS *	S4411A	Aritech OTIS Compass IP HLI
TS0869	S5113	Panel, Int. 4 Lift Ctrl. Challenger Tecom
TS0869S		Panel, Firmware, 4LC Challenger, Eprom Tecom
TS1066 Series	S7016A	Network Access Controller
Expansion Modules		
TS1020	S5016A	Challenger Data Gathering Panels
TS1020B	S5133A	Analogue DGP Board Only
TS0825E	S1355A	Wireless DGP Inovonics, Ecostream
TS0827	S5119	Panel, DGP, 4 Input Challenger Tecom
TS0021	S5017	8 way input card (not recommended for Challenger10 panels)
TS1021	S5017A	8 way input card (Challenger10 panels only)
TS1061	S7017A	Dual Wiegand Interface
TS1084	S3971A	Memory expansion module Challenger10 and ChallengerSE
TS0884	S3102A	Memory, V8, 8 Meg IUM Challenger Tecom
TS1082 *	S5811A	User Expansion Licence for ChallengerSE
TS1091 *	S3998A	Enhanced Communications Licence for ChallengerSE
Readers		
TS0870	S5179	Reader, Proximity, Smart Challenger Tecom
TS0870D	S5260	Reader, Proximity, Smart Decorative, Challenger Tecom
TS0870H	S6941	Reader, Proximity, Smart Heavy Duty Industrial
TS0870P	S5177	Programmer, Smart Card Challenger Tecom
TS0870W	S3140A	TS0870 with Wall Box Mounting Kit
HID-27-SIG20-W		MultiClass Signo20 Tecom 27 bit Indala transition reader Wiegand
HID-27-SIG20-O		MultiClass Signo20 Tecom 27 bit Indala transition reader OSDP
430212003*	S3198A	MultiClass transition reader Indala to Mifare/iClass
430212004 *		MultiClass transition reader Indala to Mifare/iClass Wallswitch
430212010 *		Multiclass transition reader Indala - iClass SE RP10
TS1351-1A	S6912	Reader, Proximity, Flexpass Arch, Slim, OnyxTecom
TS1352-1A	S6900	Reader, Proximity, Flexpass Arch, Wallswitch, Onyx
TS1384-1A	S6930	FlexPass LongRange Arch Reader Colour - OnyxFormat
TS1451-1A *	S5817	Reader, Proximity, Flexpass Linear, Slim, OnyxTecom
TS1452-1A	S6907	FlexPass WallSwitch Linear Reader, Colour - OnyxFormat
TS1455-1A		Flexpass Mag-Stripe Linear Reader,Colour- OnyxFormat

* discontinued

Part Numbers & Descriptions

Product Code	Hills Order Code	Name
Cards		
TS0157	S5100	Card, Hi-Co 4000 Magstripe encoded to customer request
TS1116	S5042	Card-Keytag, Proximity, ASK116 Tecom
TS1116-26B	S5198	ASK116 ProxTag Format 26 Bit
TS1121	S5041	Card, Proximity, ASC121 Vertical Slot Tecom
TS1121-26B	S5197	ASC121 Life Time Card Format 26 Bit Vertical Slot Punch
TS1130	S5122	Card, Proximity, Image
TS1130-26B		ISO30 Image 30 Card No Slot Format 26 Bit
TS1142		iClass Fob, Black, 2K with 2 Application Areas, Tecom 27 bit format
TS1170	S5178	Smart Card-Hitag 2-Gloss Sequential Numbering
TS1173	S5193	Hitag 2 Tear Shape Keytag
TS1174	S6918	Smart Card - Hitag 2 - Gloss With HiCo 3600 Magstripe
TS1175	S1090	Hitag 2 Clam Shell Card
TS1176	S3941A	Hitag2 + Mifare 1K ISO Card
TS1178	S3970A	Hitag 2 E-Coil
Enclosures and Accessories		
TS0840	S5019	Panel, 4 Way Relay Challenger Tecom
TS0841	S5020	Panel, 8 Way Relay Challenger Tecom
TS0842	S5021	Panel, 16-way Open Collector Challenger Tecom
TS0843	S5129	4-way Relay (note: one box contains 4 snap-off boards)
TS0844 *	S5164	Panel, Power Distribution Challenger Tecom
TS1044	S114060	Power Distribution Board
TS0307	S5191	Enclosure, Metal, Universal Tecom
TS0327	S5070	Enclosure, Metal, Small Tecom
TS0816S *	S5190R	Panel, Firmware, V8 Eprom Tecom
TS1179	S110001	Smart Silicone Wrist Band
TS0073	S5047	Power Supply & Battery Box 13.8VDC, 2 Amp Tecom
Titan		
TS9002 *	S5156	Software, Titan, Single User Tecom
Forcefield		
TS9100	S1438A	Forcefield Level 1 Server
TS9100-KB-MS		Forcefield Brick Replacement Keyboard/Mouse Replacement Keyboard/Mouse
TS9100-PS	S7989	Forcefield Brick, Replacement Power Supply with DV connect 110-240V - 12V 3A
TS9101	S1283A	Forcefield 1st Client - ONLY for use as 1st client (must be ordered with TS9100 or TS9120)
TS9110	S3576	Forcefield Client
TS9111		Forcefield Video Switcher License (CCTV License)
TS9112	S4781	Forcefield Pager / Duress License (Ascom License)
TS9113		Forcefield Intercom License (Jacques License)
TS9115	S1279A	Forcefield Multi-Node (Only available to trained installers on Level 1 Systems)
TS9116	S1280A	Forcefield 3rd Party I/FLicense (only available on special request)

Product Code	Hills Order Code	Name
TS9117	S1281A	Forcefield GE DVR Integration License (only available to trained installers)
TS9118	S1282A	Forcefield Hot Standby License for M-N & Ent System (only available to trained installers)
TS9119		Forcefield Auto Import/Export
TS9120VM	S1556V	Forcefield Enterprise VM L3 Server (inc License)
TS9170	S110621	Commend Intercom License (one required per intercom)
Tecom IP Receiver		
AR980500 *		500 Panel IP Alarm Receiver
TS981000	S7014A	IP Receiver v2 Server - 1,000 panels
TS981000V	S4798A	IP Receiver v2 Virtual - 1,000 panels
TS981000V-SUSP	L0160	IP Receiver v2 Virtual, SUSP
TecomC4		
TS-C4-AV7	L0088	ACC7 WebAPI VMS License
TS-C4-APER	L0064	Aperio License
TS-C4-AV	L0011	Avigilon VMS License
TS-C4-DAHU	L0053	Dahua Recorder License
TS-C4-DLMR	L0029	Dallmeier Recorder License
TS-C4-FORT7	L0076	Digifort 7 Recorder License
TS-C4-DSCPSN	L0012	DSC PowerSeries Neo License
TS-C4-GT	L0028	Genetec VMS License
TS-C4-GEUT	L0060	Geutebruck Recorder License
TS-C4-HIK	L0055	HIK Vision Recorder License
TS-C4-KEYW	L0079	KeyWatcher Illuminated Access Controller License
TS-C4-KONE	L0032	Kone Lift license (1 system)
TS-C4-MS	L0010	Milestone VMS License
TS-C4-MORPHO	L0048	Morpho License
TS-C4-PAC	L0027	Pacom/IDIS Recorder License
TS-C4-SAL50	L0042	Salto SHIP License (Up to 50 doors)
TS-C4-SAL99	L0045	Salto SHIP License (50+ doors)
TS-C4-SNMP	L0070	SNMP System license
TS-C4-SCHI	L0035	Schindler Lift license (1 system)
TS-C4-ISAD	L0072	TecomC4 Active Directory License
TS-C4-STDADV	L0063	TecomC4 Advanced Edition Software (existing sites)
TS-C4-PRO	L0051	TecomC4 Advanced Edition Software (new sites)
TS-C4-C10	L0001	Tecom Challenger10 license
TS-C4-C10	L0001	Tecom ChallengerPlus license
TS-C4-C10	L0001	Tecom ChallengerLEPlus license
TS-C4-V8	L0038	Tecom ChallengerV8 license
TS-C4-NAC	L0067	Tecom Network Access Controller license
TS-C4-TRAKA	L0082	Traka Access Controller license
TS-C4-TP	L0005	TruPortal license
TS-C4-TV	L0002	TruVision recorder license
TS-C4-2N	L0085	2N Driver (1 intercom)

Comprehensive Service and Support



Hills Technical Support

Hills Technical Support is your first point of contact should you require technical support on the Tecom range. For more complex issues, Hills will escalate to the Aritech Technical Support team.



CONTACT HILLS TODAY

Technical Support

Australia: 1800 252 213

New Zealand: 0800 11 4357

Email: customersupport@hills.com.au

Visit the Hills website at www.hills.com.au

The Aritech Team

While many of our security solutions can be installed by integrators who have been trained or certified in our products, sometimes solutions need that extra bit of assistance to get it right for the customer. Please ensure you have contacted Hills Technical Support for your initial enquiry. Where required, they will escalate to Aritech for assistance.



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Outside Australia: +61 3 9239 1200

Email: cs@firesecurityproducts.zendesk.com

Visit our website at www.interlogix.com.au



SOLUTION DESIGN

From initial planning to post-sales and system expansion, the team are here to assist and provide professional expertise that can enhance the efficiency, usability and cost-effectiveness of your system.

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Aritech provides leading security and life-safety solutions for both commercial and residential applications covering intrusion, video, transmission and access. Offering some of the most-trusted product names in the industry, and backed by ongoing partner services and support, Aritech helps customers secure and protect what matters most. Aritech is a part of Carrier, a leading global provider of innovative HVAC, refrigeration, fire, security and building automation technologies. For more information visit www.aritech.com.au and follow us on LinkedIn @Aritech Australia.

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