Discovery by tecom

Discovery Control Panel

TSX10000

OVERVIEW

Designed, engineered, developed and manufactured in Australia, Discovery is Aritech's most advanced security product to date. Guided by years of experience and customer feedback, Discovery forms the new core of the Tecom intrusion and access control range.

While containing and enhancing features from the previous generation Challenger hardware, Discovery now introduces a web based experience for programming, din-rail form factor for ease of installation, and enough computational power to ensure new features can be added without compromising performance or requiring additional hardware.

Familiar Tecom reliability, ongoing local support, and a further enhanced experience when using the Discovery alongside WMSPro management software and Ultrasync cloud monitoring services makes Discovery a great choice for any installation.

Access the published system architecture diagram here to streamline installation.

FEATURES

- Australian Made and designed
- Onboard web browser for full installer programming
- Supports ChallengerPlus peripherals
- Scalable and adaptable
- Enhanced functionality for all access control and security management requirements
- 65,000 users supported on board, no expander required
- 4 onboard general purpose relays
- 2 onboard siren outputs
- 16 onboard inputs
- 3 onboard RS485 bus connections
- 2 onboard Wiegand reader ports
- 32 Standard Doors onboard
- Extensive LED indicator panel displays device and system status at a glance
- Plug-in 4G and Wifi adapters available
- Firmware upgradeable via browser or CTPlus, remotely or on premises
- Built using Cyber Security best practices
- Reduced installation footprint
- DIN rail mounted, retrofit kit available to suit existing enclosure
- Compatible with standard Clipsal cabinet sizes

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Discovery Control Panel

No DIP switches for new hardware

4G & Wi-Fi via USB

Web browser for all user and configuration programming

Electronic LAN balancing

Auto-addressing devices

Connect existing Challenger relay expansion modules

Conforms to Clipsal sizing "12M"

4 general purpose relays (e.g. doors)

LEDs to indicate status for all I/O

Powered by 12 or 24 VDC input

Conveniently located power for all devices

2 Wiegand reader ports for Standard doors / lifts

TSX10000 Discovery Control Panel

- Power (DCv | Batt)
- Lock Power
- Aux Power
- Ethernet (Link | Data)
- Comm 1 (Pwr | Data)
- Comm 2 (Pwr | Data)
- Comm 3 (Pwr | Data)
- Serial (Pwr | Data)
- Siren (Ext | Int)
- Strobe
- Reader Power
- Reader Data (1 | 2)

Active | Inactive | Fault

Relay • 1 • 2 • 3 • 4
Input • 1 • 2 • 3 • 4
• 5 • 6 • 7 • 8
• 9 • 10 • 11 • 12
• 13 • 14 • 15 • 16

ORDERING INFORMATION

TSX10000	Tecom Discovery Control Panel
TSX10000-PSU1	24V DC 120 W Standalone Power Supply
TSX-DINRAIL	Tecom Discovery Retrofit DIN Rail
TSX10000-UPGKIT	Tecom Discovery Upgrade Kit (includes TSX10000-PSU1, TSX-DINRAIL)
TSX16000-AU / TSX16000-NZ	Tecom Discovery 4G Comms Module (Australia / New Zealand)
TSX16000	Tecom Discovery 4G Comms Module (without SIM cards)
TSX17000	Tecom Discovery USB Wi-Fi Adapter

Discovery 4G Comms Module

TSX16000

FEATURES

- Driven by Discovery, no independent upgrades required

- Dual sim slots for ultimate coverage and redundancy

- Din rail form factor, install alongside Discovery with ease

- Power and data delivered by included USB C cable. Simply plug in and setup in the Discovery browser

- LTE CAT 4 network for improved speed

- Ultrasync ready with included sim cards (TSX16000-AU and TS16000-NZ)

Discovery Wi-Fi Adapter

TSX17000

FEATURES

- Driven by Discovery, no independent firmware upgrades required

- Plug into the USB A port on Discovery and setup as required in Discovery browser

- Access Point mode to create a new network for accessing the panel browser via Wi-Fi

- Infrastructure mode to join an existing Wifi network

- Provided by a leading network hardware manufacturer, the Wifi unit has been extensively tested for functionality and realiability

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SPECIFICATIONS

System Features (Discovery 2.0 Firmware)	
Onboard web interface	Yes (Responsive for mobile, tablet, and computer)
Onboard status indicators	Normal operation: 2 dual-colour LEDs Technician operation: 36 dual-colour LEDs + 4 single-colour LEDs All LEDs capable of indicating power, activity, and fault conditions
Areas	99
Area groups	255
Inputs on board	16 (expandable to 1,008)
Automation zones	100
Outputs on board	4 general purpose onboard relays (expandable to 512). Two siren outputs which can be configured as either 8 Ohm sirens or 12V DC sirens, 1 strobe.
Supports access control	Yes
Supports lift control	Yes
Max. access control doors	128 Doors, comprising of : Up to 32 Standard Doors Up to 96 Intelligent Doors (using TS1066 or TS1067E)
Max. lifts/floors	98 Lifts, comprising of : Up to 2 Standard Lifts (max. 10 floors each) Up to 96 Intelligent Lifts (using TS1066 or TS1067E - max. 64 floors)
Max. readers	Up to 2 Wiegand readers connected directly to Discovery via Reader ports Up to 32 Tecom Smart Card Readers connected directly to Discovery via Comm ports (expandable up to 608 via NACs on RS-485 Comms)
Connection options (onboard)	UltraSync - Ethernet Interface - USB - RS-232 serial
Ethernet	Onboard 10/100 RJ45 network port
Reporting formats	UltraSync, Contact ID Large, Computer polled, Computer Event Driven, Tecom IP Receiver, Serial STU and Printer
Communications bus	3 x RS-485 (Comm 1 & Comm 2, + Comm 3 *)
Maximum cabling distance	1,500 m (unless extended by LAN Isolation Interfaces, fibre or IP LAN Adapter)

System Capacity	
Users	65,535 built-in with name and 10-digit PIN
Alarm groups	255
Door groups	255
Floor groups	128
Alarm log	5,000
Access log	5,000
Holidays/Special days	24 holidays, option for recurring annually, plus 8 holiday types
Time zones	48 'hard' time zones plus 16 'soft' time zones
Communication Paths	10 concurrent

Physical and Environmental	
Housing material	Polycarbonate ABS plastic Clipsal compatible form-factor, supporting discreet escutcheons for connectors and cable management
Enclosure mounting	DIN rail (upgrade kit available for existing Challenger enclosures)
Dimensions (W x H x D)	215 mm x 100 mm x 63 mm (12M / 12 Pole)
Weight	700 g
Temperature	0 to 50°C
Relative humidity	0 to 93% non-condensing

Electrical	
Input voltage to unit	12-24V DC 90 W, 12V DC SLA battery
Battery test	Dynamic battery testing
Fuse Protection	Individual PTC (Positive Temperature Coefficient) fuse protection for: LAN, battery, auxiliary and internal siren, external siren and strobe, relay expansion and J15 serial
Minimum recommended input power	90 W
Operating Current (no peripherals connected)	97 mA no battery fitted
Auxiliary power outputs	1.15 A
Charging system for battery	1.5 A

* Some interfaces are currently reserved for future use (Comm 3, Input Expander)

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