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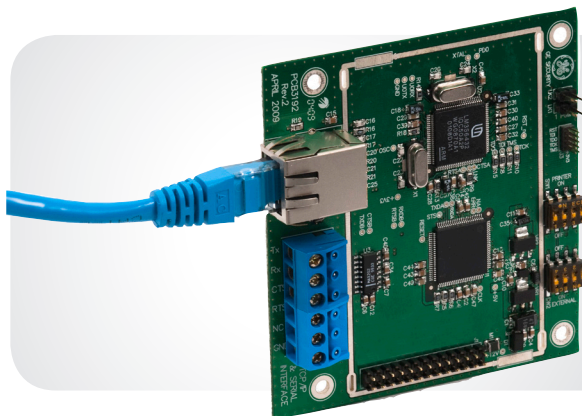
TS0099

Enhanced IP Interface

Overview

The TS0099 provides the Challenger V8 system with IP connectivity over LAN/WAN to management software or central monitoring station.

It enables the Challenger to be configured and managed remotely as well as locally.

By providing IP connectivity you can achieve significant savings in cabling by leveraging your existing corporate IT infrastructure.

The TS0099 plugs directly onto the TS0816 Challenger board. It has an RJ-45 port for Ethernet connection, and a serial printer interface for local printing of events.

For maximum security the TS0099 uses 128-bit encryption.

The TS0099 may be programmed for either polled or event driven data transfer. In event mode, network utilisation is reduced to data transmission only. This not only enables quicker delivery of events, but also reduces network bandwidth usage to a negligible amount.

In the event of IP communication failure, the Challenger panel's onboard dialler may be used as a backup device to report alarms.

Features

- IP communication for Challenger panels
- TS0099 plugs directly onto the Challenger V8 board
- Alarm reporting over IP using CID (Contact ID) format
- Integrated firewall protection
- Crossover cable use (by installers) is no longer required
- Field firmware upgradeable (via serial connection)
- High security using 128-bit Twofish encryption
- In the event of IP communication failure, the Challenger panel automatically use its onboard PSTN dialler to report alarm events
- Configurable port number
- Provides network interface for self-administered security systems and/or interface with central station receivers
- A directly-connected printer is used to print, in real time, all alarms and/or access control events. Alternatively, alarm and access control event history stored in the panel can be printed at any time
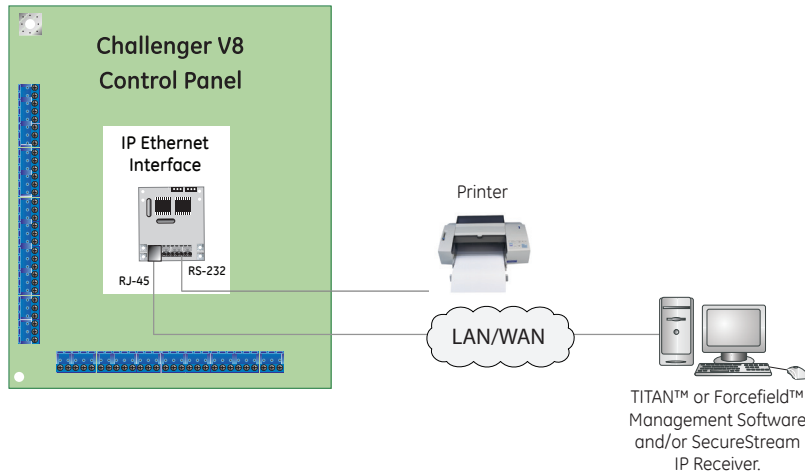
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System Block Diagram

Specifications

Reporting options	SecureStream IP Receiver, management software, local printer
Reporting backup	PSTN dialler from the Challenger panel for alarm events to central monitoring station
Cable requirements	RJ-45 Port: Cat 5 Twisted Pair Printer Port: Four-core shielded RS-232 data cable, such as Belden 9534
Maximum cabling distance	RJ-45 port 85 m (unless hub is used) RS-232 printer port 30 m
Operating Capacity	
Programmability	Programming is password-protected: an authorised Challenger technician must program the TS0099's communications and reporting parameters
RJ-45 port	100 Mbps Ethernet and 10 Mbps (auto-sensing).
Encryption method	Twofish 128-bit public key
Maximum traffic generated	Typically 10 to 20 Kbytes during standard sized database access over a period of 2 to 5 minutes
Network utilisation	Typically less than 10%
Ethernet protocols	TCP/IP and UDP/IP
Status indicators (LEDs on RJ-45 port)	Green LED on to indicate Ethernet link connection. Orange LED flickers to indicate data transmission or reception.
Input voltage	Powered by Challenger panel
Input current	80mA maximum
MSW compatibility	Forcefield or TITAN Single User (version 1.08.01 and above)
Regulatory Compliance	ACMA C-Tick for Australia and New Zealand

Ordering information

TS0099	Enhanced IP Interface

TS0099-DS-150930-6