

**Protégé Standard 16 PGM Output Expander**

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The Protégé Standard 16 PGM Expansion Interface module provides the control of 16 Low Current open collector outputs from the Protégé Integrated Access Control, Security and Building Automation system, an advanced technology security product providing seamless and powerful integration.

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### Low Current Hardware Interface

The Protégé Standard 16 PGM Expansion Interface provides extensive hardware advancements that allow flexible and structured control of pilot relays for lighting, automation and LED indicators for mimic panels:

- 16 Open Collector outputs capable of switching loads up to 50mA.
- High performance 16 Bit processor.
- Power output fused with 1.1A electronic protection monitored by the Protégé System Controller.

### Connectivity and System Expansion

Expanding the Protégé System with PGM's (Output) from the 16 PGM Expansion Interface module allows convenient cost effective expansion and added benefit of high current onboard FORM C relays:

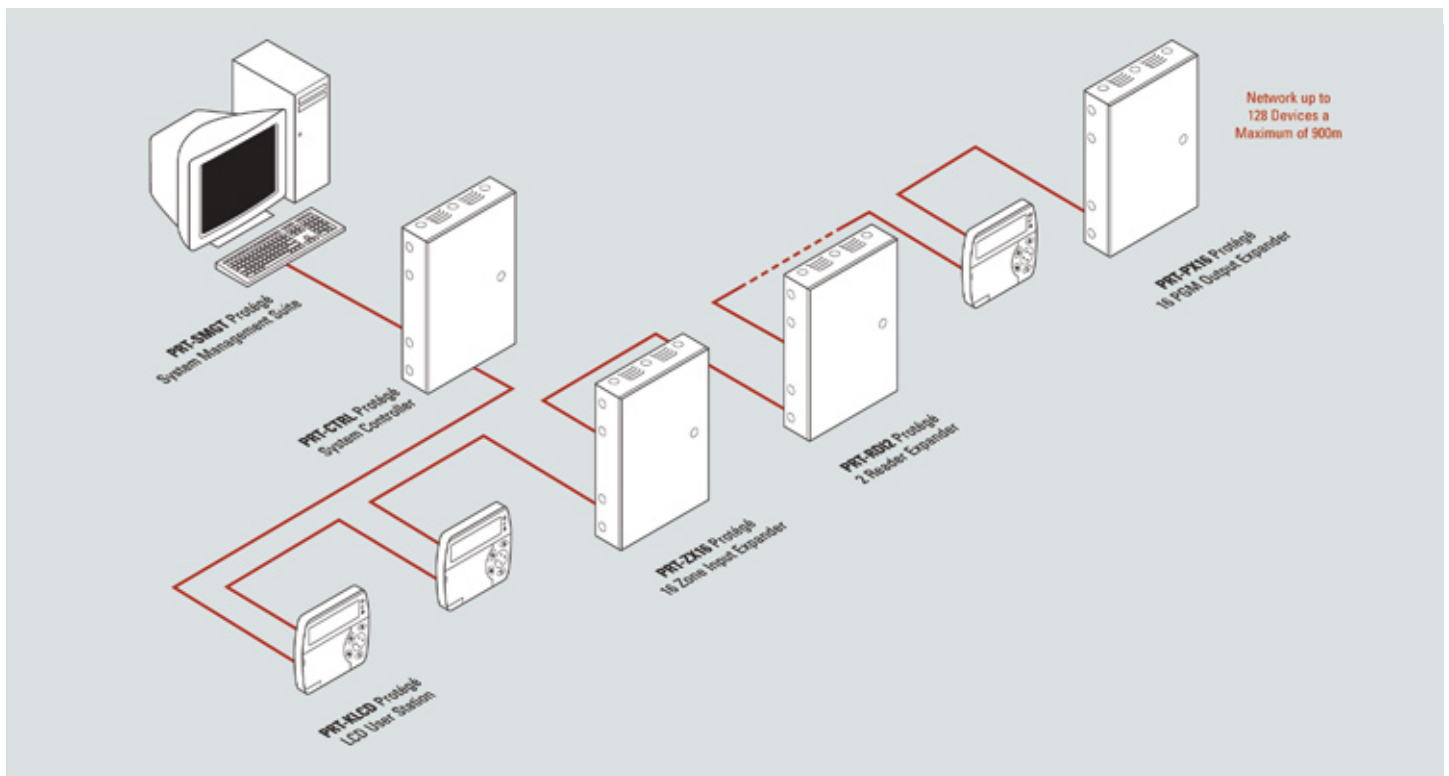
- 16 Multiple Function PGM (Programmable Output) Outputs for use in any programmable PGM entry.
- Ideal for connection in a electrical switch room to control signage, lighting and building automation.
- Address configuration of the Protégé Standard 16 PGM Expansion interface is achieved using an eight way DIP switch.
- PGM's can be configured to automatically turn on when powered up, communication failure or to resume previous state.

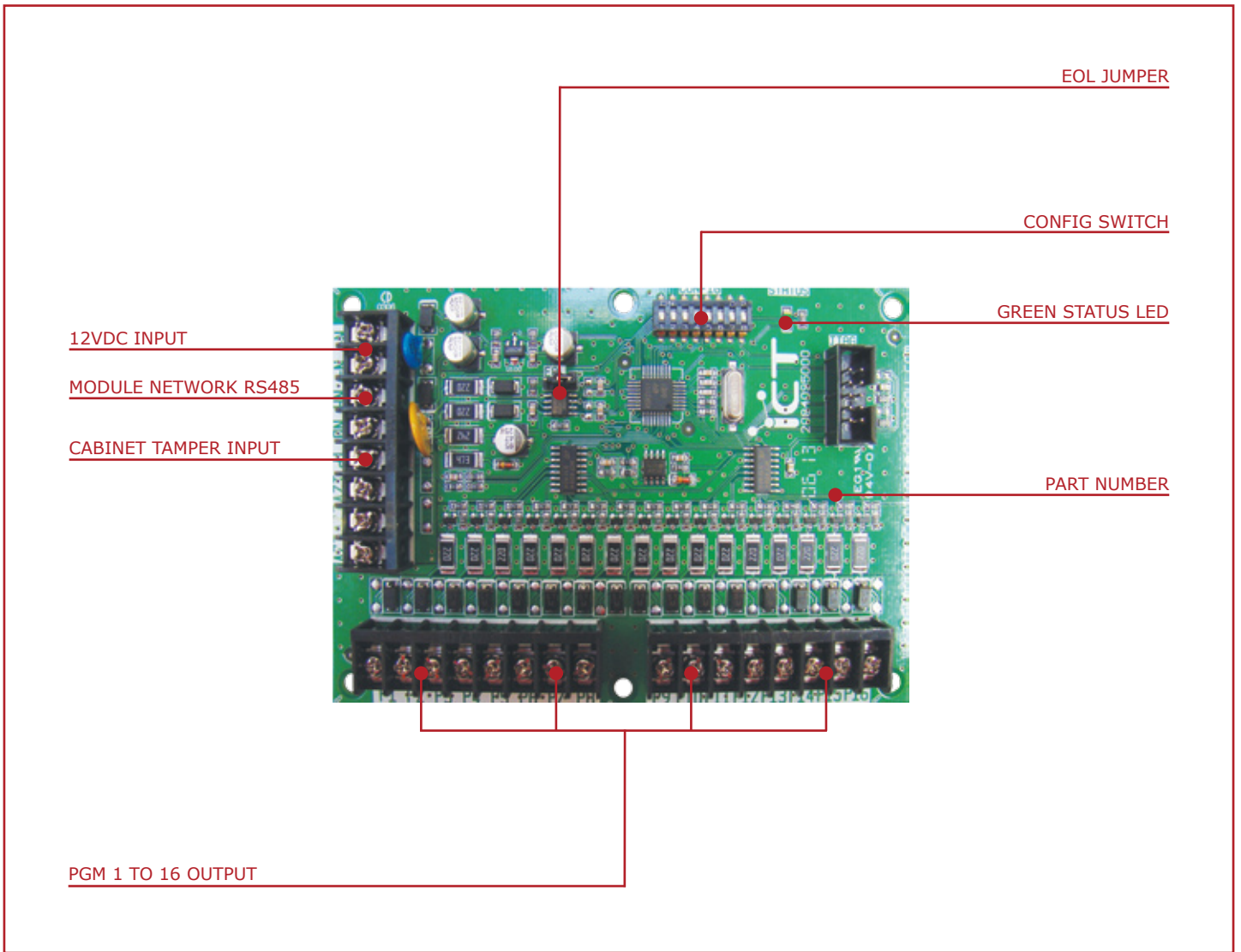
### Communication

RS-485 communication interface port allow powerful communication options:

- Network RS-485 port used for all network communication functions and interconnects to other modules.

## Standard Configuration





### Technical Specifications

Power	Operating Voltage Operating Current Auxiliary Output	11.5VDC to 14.25DC 49mA (120mA Max) 150mA Fused / Monitored
Cable Specifications	Protégé RS-485 Encrypted System Network Communication	Beldon Part Code 9842 or Equivalent. CAT5 / 5e (900m) or Similar.
Communication		Serial RS485 Communication Interface Port
Zone (Inputs)	System Zones	Enclosure Tamper, Normally Closed.
PGM (Outputs)	System PGMs	16 50mA (Max) Open collector outputs
Temperature	Operating Storage Humidity	5° to 55°C (41° to 131°F) -10° to +85°C (14° to 185°F) 0%-85% (Non Condensing)
Dimensions	Height Width Depth Weight	93mm (3.66") 130mm (5.11") 12mm (0.47") 165gms (5.89 ounces)
The size of conductor used for the supply of all power to the Protégé Standard 16 PGM Expansion Interface should be adequate in size to prevent voltage drop at the terminals of no more than 5% of the rated voltage.		

**International Compliance Standards:**

The Protégé Standard 16 PGM Output Expander complies with the following international standards.

For an installation of the Protégé Standard 16 PGM Output Expander to comply with any of the standards all installation procedures and programming configuration settings must be made in accordance with the required standard.

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