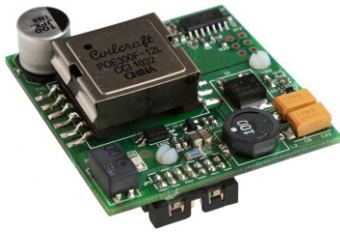
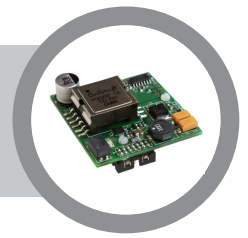


CM-POE-HC-IT Installation Guide



Power over Ethernet
Module

General

The CM-POE-HC-IT is an optional plug-in module to the IT31, GT4 and IT51 series Front Panels which enables the Terminal to be powered via the Ethernet connection from a standard PoE switch or power injector.

- Can provide the terminal with 1-2A at 12V

- Features galvanic isolation from the Ethernet connection
- Can be used in conjunction with Battery Backup Module
- Plug and Play plus system diagnostics enabled

The CM-POE-HC-IT can be easily fitted, it plugs into the IT31, GT4 and IT51 Front Panel and requires no additional wiring.

Power Feed Device for Different Terminals

The CM-POE-HC-IT module can be fitted to IT31, GT4 and IT51 devices. It can operate with both IEEE802.3af (13 watts) and IEEE802.3at PoE+ (26 watts) power feed devices. For IT31, GT4 and IT51 only the 13w IEEE802.3af is required and modules fitted to these devices should be powered from IEEE802.3af power feed sources.

	Injector Type	
	IEEE802.3af	IEEE802.3at PoE+
IT31	✓	△ ₁
GT4	✓	△
IT51	✓	△ ₁

1. It is possible to connect IT31/IT51 to power injectors but care should be taken not to exceed a total power loading of 1.2A. In practice this issue only arises if connecting an external load to the 12V supply of a terminal.

Compatibility

- IEEE 802.3af & 802.3at

Operating Temperature

- 0 to +50°C (32 to 122°F)

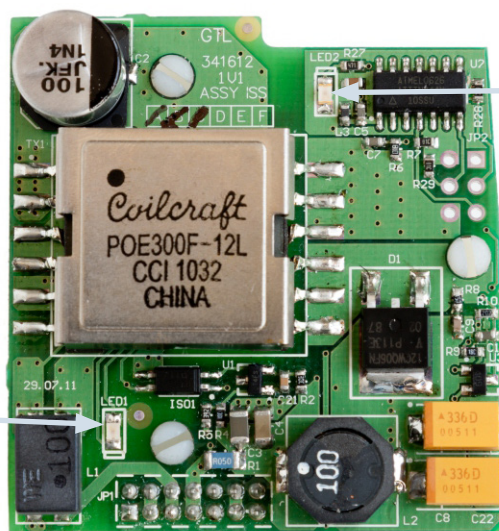
Humidity

- 5-90% non condensing

Power Loading

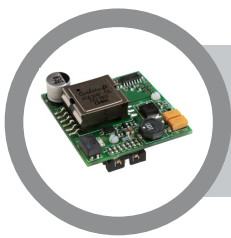
This module provides:

- 1000mA @12V using IEEE 802.3af injector
- 2000mA @12V using IEEE 802.3at injector



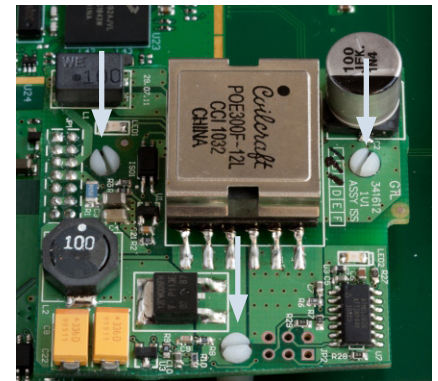
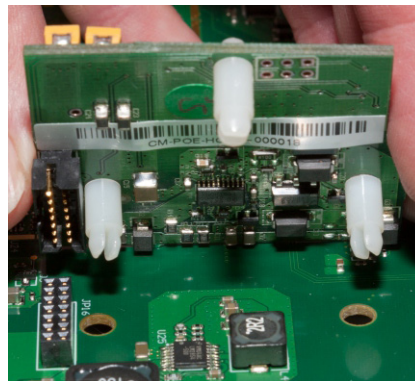
Diagnostic LED
Four flashes followed by three seconds off indicates a healthy module

Power Class LED
Illuminates when connected to IEEE802.3at PoE+ injector



Fitting the Extension Module

1. Ensure IT/GT4 Device is powered down
2. Align the module with the connector and holes on the IT31/GT4/IT51 Front Panel circuit board
3. Press into position until plastic pillars click into place
4. Re-assemble terminal and connect to PoE switch



CM-POE-HC-IT
Fitting position in Front Panel



IT31



GT4



IT51

Typical Configuration

An IEEE802.3af/at Ethernet Switch may be used to power several Terminals equipped with PoE modules. The PoE Switch connects to a power supply (typically mains) and feeds power down the UTP Ethernet cable. Power may be transferred on data pairs using a centre tap transformer feed or directly applied to spare cores.

Typically before an IEEE802.3 PoE Switch connects power to the Ethernet cable it senses the line to establish that a compliant device is connected. During this negotiation the Terminal informs the Switch how much power it requires (Power Class) in order for the Switch to manage its power and provide diagnostics.

