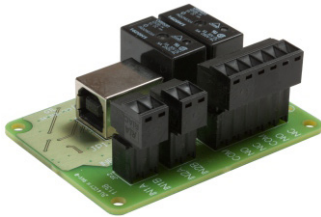
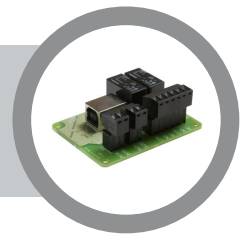


USB Input/Output Extension Module Installation Guide



EM-IO-USB-IT

General

The EM-IO-USB-IT is an extension module providing relay outputs and auxiliary inputs for IT/GT4 series Front Panels

- Two Auxiliary Inputs - AC/DC Opto-isolated
- Two Relay Outputs - Single pole changeover contacts

The EM-IO-USB-IT locates in the Back Panel and connects to the IT/GT4 Front Panel by the USB cable provided.

- Relay Output Rating - 3A ac or dc 30V max
- Auxiliary Input ON voltage - 5 to 24V ac or dc
- Power Loading - 115mA @12V Power IN

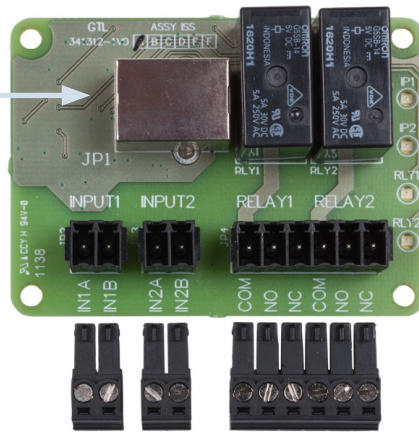
USB Connector

Connects to IT/GT4 series front panel USB port using cable provided

Auxiliary Inputs AC/DC Optoisolated 5-24V

- 1 IN 1 A
- 2 IN 1 B
- 3 IN 2 A
- 4 IN 2 B

The two Auxiliary Inputs are optically isolated from other circuitry on the board and each other. To activate an input apply a voltage across the A and B connections. The voltage may be either polarity or AC and 5 to 24V.

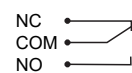


Status Indicator LEDs

- IP1 - Input 1 ON LED
- IP2 - Input 2 ON LED
- RLY1 - Output 2 Relay Energised LED
- RLY2 - Output 1 Relay Energised LED

Relay Out - 3A max

- 1 Common 1
- 2 Normally Open 1
- 3 Normally Closed 1
- 4 Common 2
- 5 Normally Open 2
- 6 Normally Closed 2

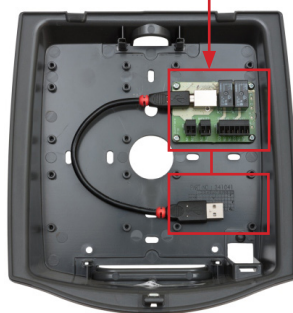


Fitting the Extension Module

1. Ensure IT/GT4 Device is powered down
2. Fix the module in the position shown using the screws provided
3. Wire connectors as required
4. USB cable provided between I/O Module and IT/GT4 Front Panel USB port*
5. Fit IT/GT4 Front Panel to Back Panel
6. Power-up the IT/GT4 device, the module will be autodetected

* IT31 provides one USB port on the front panel, if more are required two additional USB ports may be accessed by using optional module EM-USB-DUAL-IT31 pictured below.

EM-IO-USB-IT fitting positions in Back Panel



EM-USB-DUAL-IT31



Software Compatibility

Minimum Firmware Version

- IT51 - IT5100-1.0.0 or later
- IT31 - IT3100-1.0.0 or later
- GT4 - IT3200-4.0.0 or later

Testing of the module can be done through the setup menu - Terminal setup / settings / IO-Boards where relays can be operated and input status viewed as shown below



Application Software

The function of the inputs and outputs is determined by the terminal application, for example the EasyClock-Verify application includes schedules to operate outputs for bell ringing to indicate work breaks etc.

