▽ VIGILANT

MX1 OSD139 F/O Modem x 2 (FP1032) Mounting Bracket

Installation Instructions

General Description

The VIGILANT *MX1* OSD139 Fibre Optic (F/O) Modem x 2 mounting bracket (FP1032) provides mounting for two OSD139 fibre optic Modems on an *MX1* 15U or 8U gear plate, and inside an *MX1*-NZ slimline cabinet.

This bracket can also be used for mounting two OSD139 fibre optic Modems in MX4428 and F3200 cabinets.

These instructions cover the fitting of this bracket into the various fire alarm panels. The details of any necessary changes to the system configuration or other networking hardware are not covered here.

The *MX1* OSD139 F/O Modem x 2 mounting bracket is supplied with the hardware required to mount the bracket, two I-HUB connection looms, plus these instructions.

The ordering codes for the bracket and modems are as follows:

   FP1032 **FP OSD139 F/O MODEM X 2 MOUNTING KIT**

   OSD139AF **FIBRE OPTIC MULTI MODE RS232 ASYNCHRONOUS MODEM**

   OSD139AFL **FIBRE OPTIC SINGLE MODE RS232 ASYNCHRONOUS MODEM**

Modem Bracket Mounting

Mount the OSD139 fibre optic Modems on to the bracket using the washers and back nuts supplied with the modems, as shown in Figure 1.

Clamp the modems firmly to the bracket with the cable ties supplied with the bracket. Pass a daisy chain of 3 cable ties through the rectangular cut-out in the bracket, around the modems and pull tight.
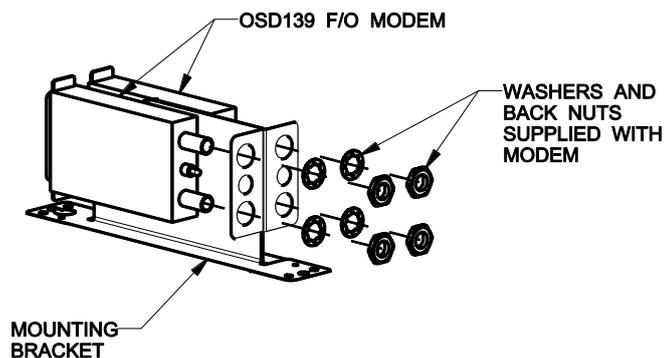

Figure 1 – Mounting OSD139 Modems on FP1032 Bracket

Mounting on an *MX1* 19" Rack Cabinet Gear Plate

The *MX1* OSD139 F/O Modem x 2 mounting bracket can be mounted on the 15U *MX1* gear plate in 7 different positions, or on an 8U gear plate in 4 different positions. Most positions use two M4 x 10 screws supplied with the bracket – see Figures 2 and 3. However, one position on each gear plate needs to use 2 x No. 6 PK screws (also supplied with the bracket). Choose the best position to suit the fibre cable entry and wiring to the I-HUB. The I-HUB will generally be mounted on the right-hand fold of a 15U gear plate, or on the RS485 studs in the right hand side of an 8U cabinet.

Always allow sufficient room for the fibre optic cables to route away from the modems without bending the fibre tighter than recommended by the manufacturer.

To mount the bracket, fit one of the screws in the top gear plate fastening point but do not tighten it. Hang the bracket on this screw using the "keyhole" in the bracket flange. Fit the other screw into the bracket's bottom fastening point and tighten both screws into the gear plate bushes.
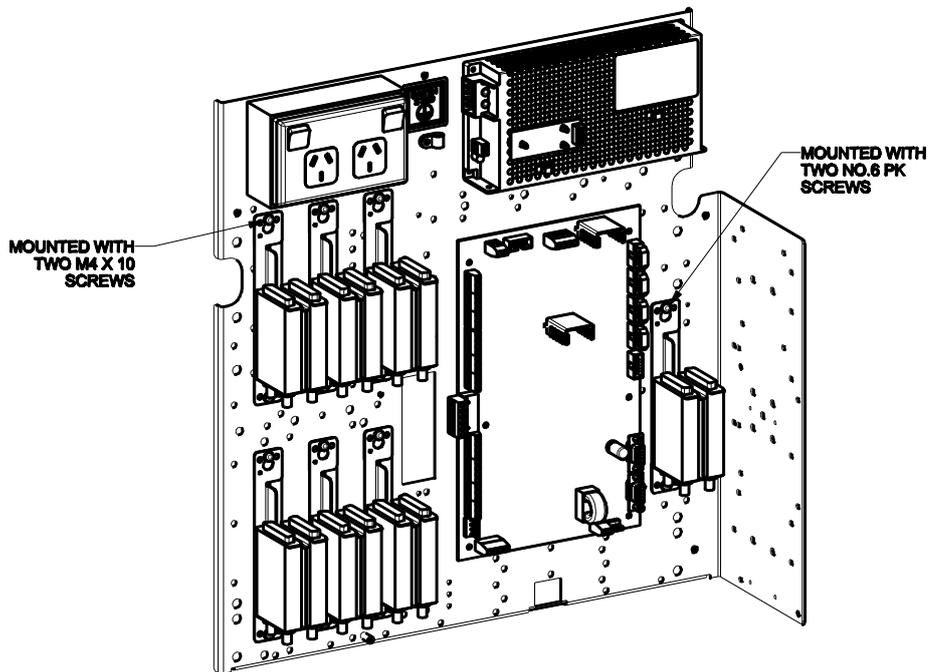

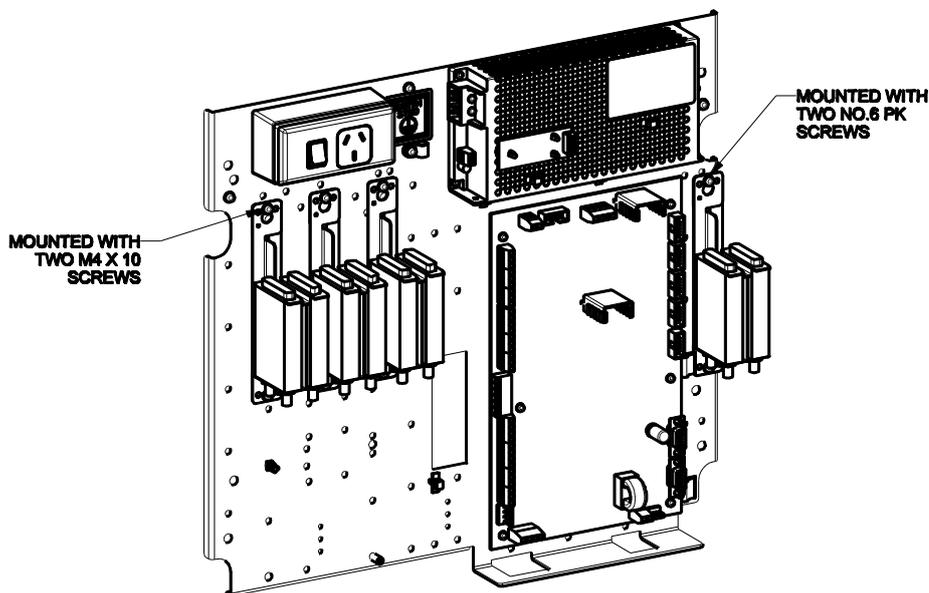Figure 2 – FP1032 Bracket Mounting Positions on a 15U *MX1* Gear Plate

Figure 3 – FP1032 Bracket Mounting Positions on an 8U *MX1* Gear Plate

Mounting in an *MX1*-NZ Slimline Cabinet

The bracket assembly is mounted to the upper right hand inside wall of the slimline *MX1*-NZ cabinet, as shown in Figure 4. In this position it will not interfere with the zone LED display cards for a rear-service system.

Fasten the bracket on the back pair of studs (furthest from the door) using the two M3 barrel nuts and 4 x washers supplied. **WARNING:** do not over-tighten the barrel nuts, otherwise the studs may snap.
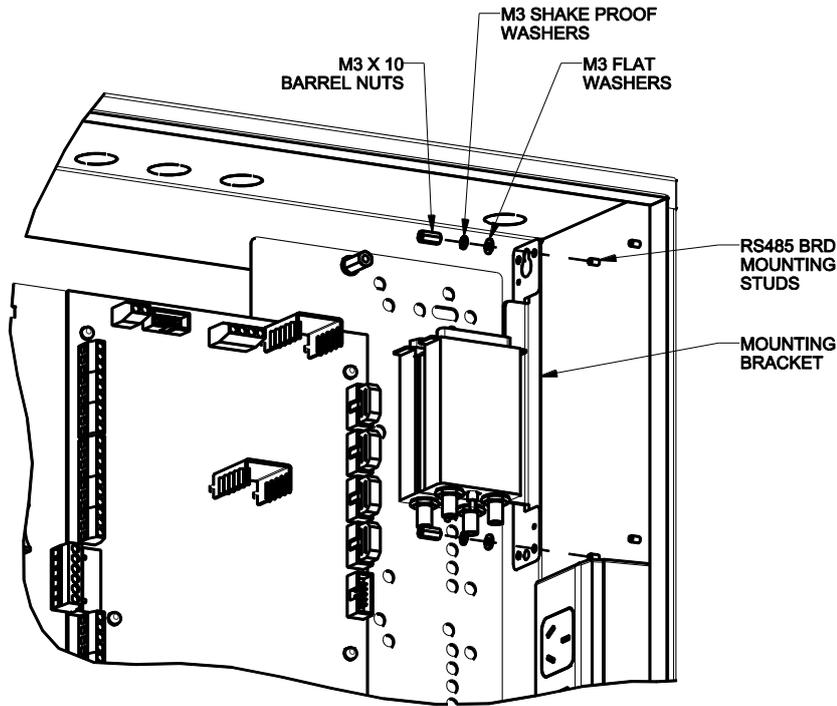
Figure 4 – FP1032 Bracket Mounting in Slimline *MX1*-NZ Cabinet

Mounting in an MX4428 or F3200 Cabinet

The FP1032 bracket can be mounted in an MX4428 or F3200 panel by drilling two Φ3mm holes in the gear plate to match the bracket, and securing with 2 No. 6 PK screws (SC0090) supplied.

Wiring of OSD139 Fibre Optic Modems

Each OSD139 fibre optic Modem is wired to the appropriate port on the I-HUB via a loom LM0572 (2 supplied with the bracket). The network design will determine the ports to be used. As supplied, the loom plugs directly into the I-HUB's RS232 port (J5 or J6). Alternatively, by cutting off the 10-way connector, the 3 loose wires can be terminated into I'HUB's Port 1 or 2 RS485 screw terminals per the labelling on each wire.
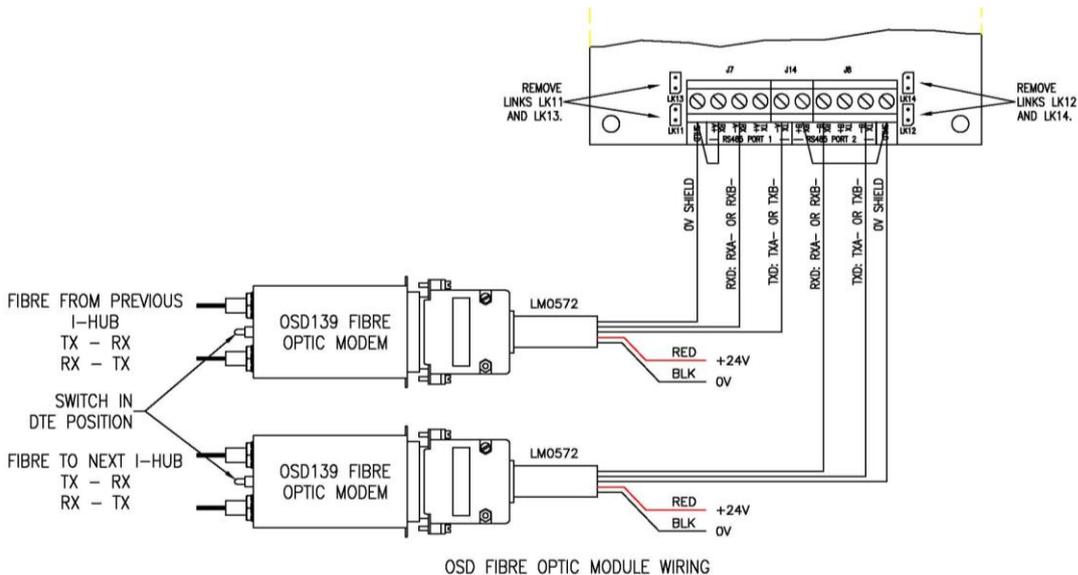

Figure 5 – Wiring of I-HUB RS485 Ports to OSD139 Modems

Parts Supplied with FP1032 Mounting Bracket

Qty	P/N	Description	Use
2	FA2016	M3 x 10 Barrel Nut	To mount bracket into slimline cabinet
1	FA2599	Mounting Bracket for 2 x OSD139	For mounting fibre modems
2	LM0572	I-HUB to OSD139 Modem Loom	For connecting fibre modems to I-HUB
1	LT0563	Installation Instructions	-
2	SC0090	No. 6 PK Screws	To mount bracket into F3200/MX4428 cabinet
2	SC0176	M4 x 10 Screws	To mount bracket onto *MX1* gear plate
3	SU0020	Cable Tie	To fix modems to bracket
2	WA0005	M3 Flat Washer	To mount bracket into slimline cabinet
2	WA0010	M3 Shakeproof Washer	To mount bracket into slimline cabinet