



## PIM Paradigm Interface Module

### Global Xpress Terminal Controller

The Paradigm Interface Module (PIM) provides a common terminal interface for a range of fixed and quick deploy terminals. It provides the modem, baseband switching, assisted pointing\* and setup functions needed for a number of different terminals. The PIM includes One Touch Calibration which makes the setup simple for users regardless of the antenna and RF combination. The ruggedised Outdoor PIM comes with a built-in visual crosshair and audio pointing aid. Both the Indoor PIM and Outdoor PIM are terminal agnostic and can work with other compliant antennas, BUC/LNBs and XCVRs.



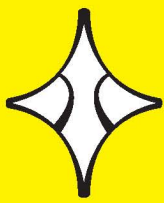
#### Features

- **GX One Touch Calibration**
- **Integrated Pointing Aid\***
- **Terminal Agnostic**
- **Antenna Control Unit Interface\***
- **Ruggedised Outdoor PIM, Desktop Indoor PIM and Rack Mount PIM models available**
- **Integrated M&C Web Interface**

The Outdoor PIM is designed to meet the environmental and operational specifications required by the GX Quick Deploy and Mobile Satellite terminals. Pointing the antenna is a very simple operation, using the Outdoor PIM's integrated pointing aid or web interface pointing page to provide visual and audio feedback. Pre-tuned to the Inmarsat Global Signalling Channel, accidental pointing or transmission to adjacent satellites is prevented. Accessing the web interface provides Monitor & Control of the PIM, modem and BUC or XCVR operating parameters, and on the Outdoor PIM, an alternative pointing aid.

All three PIM models are based on the same modularised hardware and software technology. Whilst the Outdoor PIM is designed for more demanding environmental conditions, the Indoor PIM and Rack Mount PIM are both designed to be installed as part of a fixed satellite terminal, incorporating only the hardware and software elements required by fixed terminals. Once installed, the Indoor PIM and Rack Mount PIM require minimal user interaction.

\*Outdoor PIM only.



Specification	Outdoor PIM	Indoor PIM	Rack Mount PIM
<b>Physical</b>			
Weight	5.2 kg	2.9 kg*	4.4 kg
Dimensions (w x h x d)	300 x 75.5 x 250mm	290 x 44 x 272mm	483 x 44 x 272mm
<b>Environmental</b>			
Temperature (Operational)	-25° to +55°C	-0° to +45°C	-0° to +45°C
Temperature (Storage)	-40° to +85°C	-40° to +85°C	-40° to +85°C
Humidity	0 to 95%	10 to 85%	10 to 85%
Salt Environment	750 hours per ASTM B-117	NA	NA
Vibration (Survival)	ETSI 300 019, Class 4.1E	NA	NA
Shock (Survival)	ETSI 300 019, Class 4.1E	NA	NA
Ingress Protection (Operational)	IP65	IP20	IP20
Ingress Protection (Transit)	IP66	NA	NA
<b>Power</b>			
AC Input Voltage	90-264 VAC 47-63Hz	NA	NA
Power Consumption (AC)	250 W max	250 W max	250W max
<b>Regulatory</b>			
Safety Compliance	EN 60950-1	EN 60950-1	EN 60950-1
EMI/EMC Compliance	EN 301489-12 FCC Part15 ClassB CISPR22	EN 301489-12 FCC Part15 ClassB CISPR22	EN 301489-12 FCC Part15 ClassB CISPR22
<b>Antenna Facing Ports</b>			
IFL-Tx	N-Type, Female	N-Type, Female	N-Type, Female
IFL-Rx	N-Type, Female	N-Type, Female	N-Type, Female
BUC M&C	Mil-Spec 12-pin	15-way D-type, Female	15-way D-type, Female
PLS (GPS for Indoor and Rack Mount)	Mil-Spec 10-pin	9-way D-type, Female	9-way D-type, Female
<b>Customer Facing Ports</b>			
Modem Console	RJ45 (RS232 Serial)	RJ45 (RS232 Serial)	RJ45 (RS232 Serial)
PIM Management	RJ45 (Ethernet IP)	RJ45 (Ethernet IP)	RJ45 (Ethernet IP)
Network	3 x RJ45 (Ethernet IP)	3 x RJ45 (Ethernet IP)	3 x RJ45 (Ethernet IP)
AC Power	Mil-Spec 3-pin, 90-264VAC 47-63Hz, 250W max	Universal AC Power Adapter	Universal AC Power Adapter

### Options

GX-PP Pointing Tool for Indoor and Rack Mount PIM  
 POE and DC Power options for Outdoor PIM  
 Enhanced Environmental Specification\*\*  
 Antenna Control Unit Interface

\*\*Outdoor PIM only



### Inmarsat Partner for Global Xpress Terminal Manufacturing and Integration

Paradigm is an approved **Inmarsat Global Xpress Terminal Manufacturer**, providing fixed and transportable land terminals in a range of antenna apertures up to 1.8m for commercial and government markets. Paradigm is also an approved **Inmarsat Global Xpress Terminal Integrator**, delivering complex value-added services to meet customers' demands for global coverage, seamless mobility and affordable high-speed broadband connectivity.