



# Paradigm

Clear Sighted Solutions

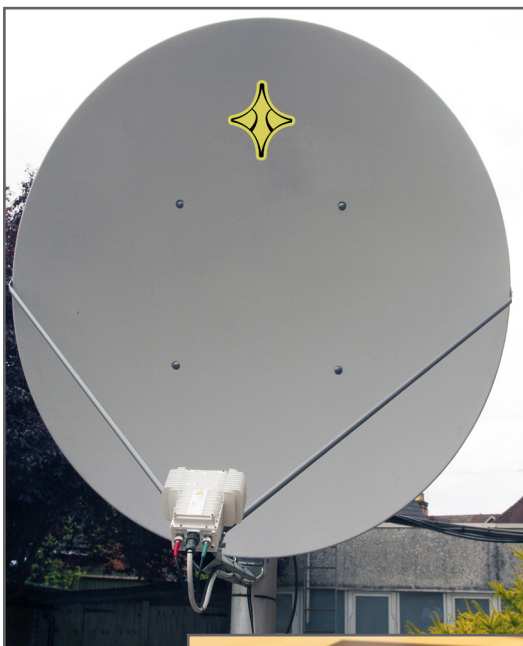
inmarsat

**APPROVED**  
GLOBAL XPRESS®  
MANUFACTURER

## Connect180 Terminal

### 1.8m Ka-Band Inmarsat Global Xpress Terminal

The Connect180 terminal is the largest of the fixed Global Xpress Certified Solution. Combining both optimal performance and functionality, the Connect180 provides access to the most advanced IP satellite services. The terminal is ideal for applications demanding very high availability and very high bandwidth and offers the lowest costing airtime of all Global Xpress terminals.



#### Terminal Overview

Designed for demanding environments, the Connect180 offers a variety of features to achieve the required accuracy needed for the best possible GX performance, including the One Touch Commissioning function to enable simple RF-chain setup. Paradigm offers the Connect180 as a standard terminal, with relevant accessories. Installation manuals and a quick start guide are also supplied on CD-ROM. For ease of setup, a tool kit with compass is provided.

Supplied with either a Kingpost, Non-Penetrating Roof Mount or Paradigm ISO Container Mount, the antenna system can be deployed/installed in any location.

Terminal M&C and modem operations are performed by the Indoor Paradigm Interface Module (PIM), which can optionally be supplied as a Rack Mount unit. For scenarios where the modem is required to operate outside, Paradigm offers an Outdoor PIM option.

To increase flexibility and adaptability, Paradigm offers alternative interface options to the standard 10/100BaseT, including fibre and wireless solutions. Cable options to suit specific installation environments can also be offered.

#### Standard Terminal includes:

- **1.8m Antenna with feed**
- **EI/Az Antenna Mount**
- **5W Transceiver / BUC & LNB**
- **RF Cable (30m)**
- **Indoor PIM (Outdoor PIM available)**
- **Installation Guide, Operators Manual and Tool Kit with Compass**

#### 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.



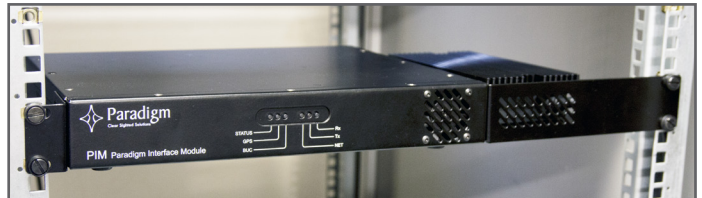
Reflector	
Reflector	1.8m Glass Fibre Reinforced Polyester SMC
Optics	One Piece Offset Feed Prime Focus
Feed	Custom Circular
Mast Pipe Interface	12.7cm (5.0") SCH 40 Pipe 14.1cm (5.56") OD
Mount Geometry	Elevation over Azimuth

Mechanical	
Azimuth Adjustment	
Fine	360° Continuous; ±10° Adjustment
Elevation Adjustment	
Fine	5° to 90° Continuous
Polarisation	RHCP/LHCP, Manual Change
Packaged Weight	100kgs approx.

Performance	
Frequency Range (GHz)	GX Compliant
Polarisation	Circular, RH or LH
Data Capabilities	Up to 5Mbps Uplink / 50Mbps Downlink
External Power	100-230V (50-60Hz)
Ingress Protection	
PIM IDU	IP52
TXVR (BUC/LNB)	IP65
Radiation Pattern Compliance	GX Certified

Environmental	
Wind	
Operational	50mph (80km/h)
Survival	125mph (200km/h)
Ambient Operating Temperature	
Antenna	-40°C to +70°C
Indoor PIM	0°C to +45°C
Outdoor PIM	-25°C to +55°C
Operating Humidity	
Indoor PIM	40 to 90% (Condensing)
Outdoor PIM	0 to 95% (Condensing)

Ordering Information
Connect180 Terminal
Options
Indoor Rack Mount PIM
Outdoor PIM with POE and DC Power options
Mounting Options
NPRM
Kingpost
Paradigm ISO Container Mount
Custom Mounts available on request
Customised & Compatible Fibre & Wireless Solutions available on request
Custom Cable Lengths and Types available on request
Cooling and De-Icing Systems available on request
Installation Tool Kit



(Our policy is one of continuous improvement: therefore the right is reserved to change specification without notice)