

Communicate. Anywhere.

Ultra Portable Ka-Band Flat Panel Terminal

Paradigm provide a combination of simple setup and optimal performance with the SWARM terminal, offering ultra portable communication services utilizing high-throughput Ka-Band satellite constellations for the commercial, government, disaster recovery and military sectors.

Features

- 45cm Flat Panel Antenna
- High Data Rates
- Total Weight only 14.5kg/32lbs
- Integrated PIM Baseband
- Integrated Antenna Mount
- Rapid Deploy and Stow
- Full Ka-Band Capability
- Low Power Consumption
- Tool-Free Assembly and Alignment
- Backpack, Hand Carry Case or IATA Checkable Case Options
- GX, Avanti and Thor 7 Compliant

PARADIGM SWARM



The Paradigm SWARM is an extremely compact, rugged, lightweight and discreet system providing superior data rates. Complete with stowable legs, the SWARM is fully portable and quick to deploy and stow.

The system is designed around the PIM (Paradigm Interface Module) which hosts a modem for use on both Velocity and Evolution networks and provides on board monitor and control to manageable terminal components.

The SWARM provides everything needed for straightforward setup and pointing, allowing the user to be operational in less than 5 minutes. This simple, intuitive and tool-free deployment/setup method involves audio and visual pointing aids and provides an effective method of acquiring the satellite without the extra bulk of motors and controllers.

As a single integrated system, the SWARM can withstand harsh environmental conditions. It has comparable performance to a 65cm parabolic antenna and can be assembled and operated in half the height making it more unobtrusive and less affected by wind.

Compared to a parabolic the link budget's rain margin is also significantly reduced, as the signal passes through the antenna only once, reducing rain attenuation and increasing wet performance. Additionally, the flat panel design sheds water easily and avoids water pooling.

To increase flexibility and adaptability, Paradigm also offer a complete range of interface options. The SWARM is packaged in a single pack which can be carried as airline hand baggage.

SWARM



Reflector

Reflector 45cm Flat Panel **EIRP** 46.0 - 52.0 dBW

G/T 14 dB/K

Ultra Lightweight Manual Adjust Positioner

Performance

Ka-Band

Frequency Range (GHz)

Rx 19.2 - 21.2 GHz * 29.0

Tx - 31.0 GHz *

BUC Power 5W, 10W, 20W Polarisation Circular, RH or LH

Local Oscillator

Rx 18.25GHz * Tx 28.55GHz *

Local Oscillator @100Hz -50dBc/Hz Phase Noise @1KHz -75dBc/Hz @10KHz (Transmit) -81 dBc/Hz @100KHz -95 dBc/Hz

@1MHz -105 dBc/Hz @10MHz -112 dBc/Hz

External Power 100-230VAC (50-60Hz)

Ingress Protection IP65

Radiation Pattern FCC 25.138, FCC 25.209

Compliance

* Mil-Ka optiona

Environmental

Ambient Operating Temperature

SWARM Antenna & PIM -25°C to +55°C

Operating Humidity

SWARM Antenna & PIM O to 95% (Condensing)

MIL-STD-810G for vibration, shock, salt fog, sand and dust, humidity and driving rain.

Mechanical

Azimuth Adjustment 180° Continuous 25° Continuous Elevation Adjustment 0° to 90° Continuous Polarisation Manual Circular X-Pol

RHCP/LHCP

Available On Request

Customised Fibre & Wireless Solutions

Extending Stabiliser Legs

Tripod Mount

Backpack, Hand Carry Case or IATA Checkable Case

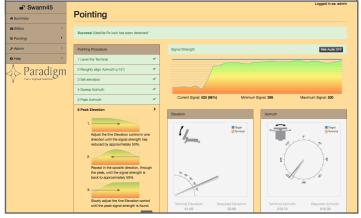
POE on Dataports

DC External Power

Mil-Ka Operation

X-Band Operation

Ku-Band Operation











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



sales@networkinv.com

US: +1.954.973.3100 CA: +1.403.287.5000 EU: +31.40.295.3001 UK: +44.20.8286.6768

SG: +65.6274.0811 AU: +61.1300.140.150 SE: +46.8.7652670

www.networkinv.com

Americas Canada

United States

Asia/Pacific Singapore Australia

The Netherlands United Kingdom Sweden

Europe

v2032017us