

# Atom 65

## Simplified satellite access

**Simplified satellite access with power-up to signal-lock in less than 5 minutes.**

### KEY FEATURES

- Compact, rugged and lightweight
- Assisted pointing features for rapid satellite acquisition
- Assembly to signal-lock < 5 minutes
- Tool-free operation
- Reconfigurable for any terrain
- Sealed RF chain
- All passive cooling for improved reliability
- Carbon fiber reflectors for light weight and durability



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Mission Critical Communications

# Atom 65

## Simplified satellite access



### OVERVIEW

This compact terminal is lightweight, rugged and quick to deploy and stow. The design is simple and robust for fast operation in tough environments.

The dual-offset antenna with 65cm primary reflector provides maximum efficiency and best possible radiation characteristics for improved data throughput and availability.

It employs a 4-piece segmented, carbon fiber reflector that deploys quickly and accurately with no tools.

The ATOM 65 is pre-approved for out-of-the-box compatibility with Global Xpress Commercial (29-30 GHz) Ka-Band network.

### TECHNICAL SPECIFICATION

#### Electrical

Transceiver Output Power	5W
Power Input	90 - 264v AC, 47 - 63 Hz, 1.5 metre regional AC mains cabled included
DC Input Voltage	18 - 36v
Power Consumption	250W Max
Operating Freq.	Rx: 19.2 - 20.2 GHz / Tx: 29 - 30 GHz
G/T - (30° elevation angle) @ 20.2 GHz	17.0 dB/K
EIRP - P1dB @ 30.0 GHz	50.5 dBW
Conversion gain	Tx: 54 - 62 dB / Rx: 55 - 65 dB
Tx Band switching	Yes

#### Mechanical

Construction	4 segments - carbon fibre
Azimuth adjustment	360° on floor (coarse) ± 35° on tripod (fine)
Elevation adjustment	10° - 90° (coarse) ±5°, one turn = .42° (fine)

#### Modem

Modem	Outdoor modem (D300 x H95 x W310 mm)
Ports	3 x RJ45 (100Base-T) - Network 1 x RJ45 (100Base-T) - Console

#### Environmental

Temperature	-25° to +55°C (operational) -40° to +80°C (storage)
Solar loading	500W/m <sup>2</sup>
Ingress protection	IP65
Corrosion resistance	Suitable for atmospheric conditions encountered in industrial and coastal regions



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014833-DOC

Product Code: GRC-014791-GP

