

# Atom 65 Auto

Simplified satellite access by way of one-touch auto-acquisition

Simplified satellite access by way of one-touch auto-acquisition and from power-up to signal-lock in less than 5 minutes.

## KEY FEATURES

- Carbon fibre reflectors
- Tool-free setup and operation
- Sealed RF chain
- All passive cooling for improved reliability
- Compact and rugged
- Assembly to signal-lock < 5 minutes
- Optional IATA compliant cases



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Mission Critical Communications

# Atom 65 Auto

Simplified satellite access by way of one-touch auto-acquisition



## OVERVIEW

This fully automatic terminal is simple and robust for fast operation in tough environments. The 65cm segmented carbon fiber reflector, integrated Ka transceiver, auto-positioning system and modem deploys quickly with no tools.

Upon activation, the system automatically detects the user's location and correct satellite, whereupon the user is guided to orientate the terminal roughly in the direction of the satellite by way of a simple visual indicator.

A single button press starts the automatic satellite and network acquisition process. No additional user input is required.

The ATOM 65 Ka Auto Acquire is pending pre-approval 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 cable 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)
Capture range	± 30° (azimuth) 10° - 90° (elevation)
Pointing resolution	0.007°
Auto-positioner	Global Xpress-10 positioner, Magnetometer box

### Modem

Size / Weight	D300 x W95 x W310 mm / 4.75 kg
Ports	3 x RJ45 (100Base-T) - network 1 x RJ45 (100Base-T) - console 1 x RJ45 (100Base-T) - modem mgmt

### Environmental

Temperature	-25°C to +55°C (operational) -40°C to +80°C (storage)
Ingress Protection	IP65
Corrosion Resistance	Suitable for atmospheric conditions encountered in industrial & coastal regions



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