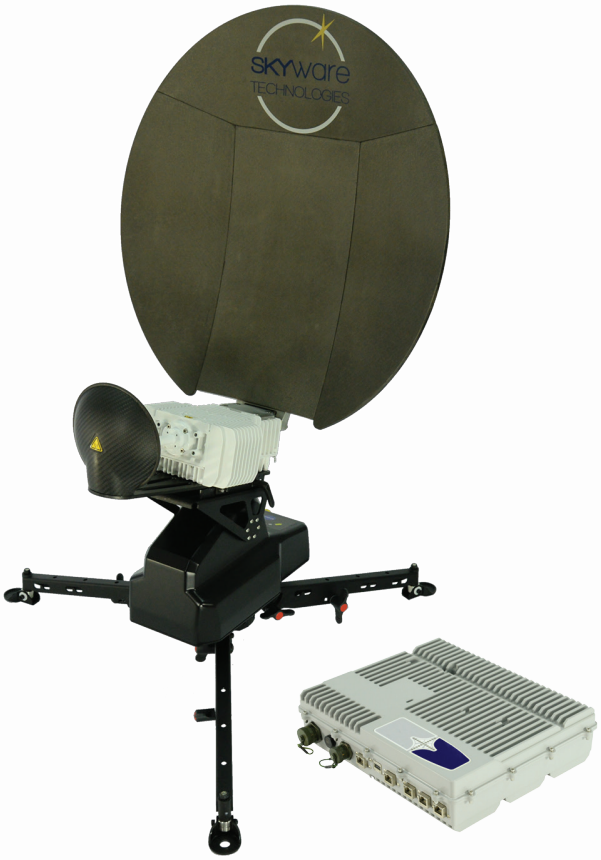
ATOM65AAGX 65cm Auto Acquire Ka Flyaway Terminal for Global Xpress®



Key Features

- Inmarsat Global Xpress approved (pending)
- Carbon fiber reflectors
- Tool-free setup and operation
- Fully automated pointing with no intervention required
- Sealed RF chain
- All passive cooling for improved reliability
- Compact and rugged
- Assembly to signal-lock < 5 minutes
- Optional IATA compliant cases

inmarsat APPROVED GLOBAL XPRESS® MANUFACTURER

EIRP
50.5 dBW @ 30.0GHz

G/T
17.0 dB/K @ 20.2GHz
30°El, clear skies

Weight **(without transport case)**
29.9 Kg

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

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 Inmarsat's Global Xpress Commercial (29-30 GHz) Ka-Band network.

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SKTFA_GX-003.11_Aug16

DATA SHEET

ATOM65AAGX — Auto Acquire Ka-Band Flyaway Terminal for Global Xpress®

CHARACTERISTIC SPECIFICATION

Electrical

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

Mechanical

Construction multi-segment	4 segments - carbon fiber
Coarse azimuth adjustment	360° on floor
Azimuth capture range	± 30°
Elevation capture range	10° - 90°
Pointing resolution	0.007°
Auto-positioner	GX-10 positioner, Magnetometer box

Modem

Modem	Outdoor modem (300 x 95 x 310 mm)
Modem weight	4.75 kg
Network port	3 x RJ45 (100Base-T Ethernet)
Console port	1 x RJ45 (RS-232 Serial)
Modem management port	1 x RJ45 (100Base-T Ethernet)
Cables	.9 meter IFL and M&C cables included
GPS antenna	Internal GPS w/ tethered antenna

ENVIRONMENTAL

Temperature (operational)	-25° to +55°C (-13° to +131°F)
Temperature (storage)	-40° to +80°C (-40° to +176°F)
Solar loading	500W/m²
Relative humidity (operational)	5 - 95%
Salt environment	750 hrs per ASTM B-117
Vibration (survival)	ETSI 300 019, Class 4.1 E
Shock (survival)	ETSI 300 019, Class 4.1 E
Ingress protection	IP65
Wind-load (operational)	30 mph (tethered)
Wind-load functional (survival)	80 mph (tethered)
Altitude functional (survival)	5000m

WEIGHT

Terminal weight	29.9 kg
Standard hard transport case*	44kg (820 x 730 x 400 mm)
Optional IATA compliant cases (2)*	23kg&31kg(750x450x380mm)

*Loaded

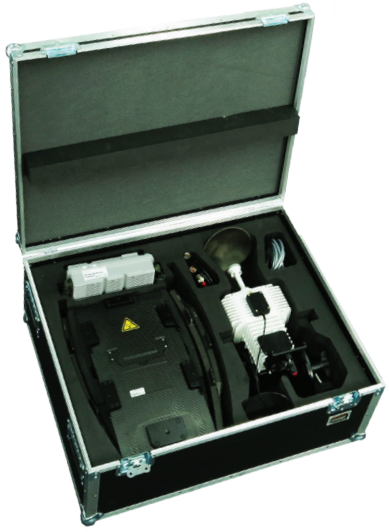

Fig. Standard hard transport case

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ATOM65AAGX 65cm Auto Acquire Ka-band Flyaway Terminal for Global Xpress®

Terminal Part Number Configurator

ATOM	65	-	GX	A	O	-				A	-	A	M	X	X

Auto Acquire

Outdoor Modem

Power Options
- A = AC in
- B = AC + PoE out
- C = DC in
- D = DC + PoE out

Outdoor Power Lead
- A = European
- B = U.S.
- C = U.K.
- D = DC

Flight Case
- S = Standard
- T = IATA Compliant

IFL, M&C plus Sensor Cables (1m)

Options
- XX = none

Example: ATOM65-GXAO-ACTA-AMXX defines a 65cm ATOM Global Xpress® Flyaway Auto-Acquire Terminal with an outdoor modem, AC powered with UK power lead, IATA compliant flight case, plus 1m IFL, M&C and Sensor cables and no other options.

Note: An Excel based configurator is also available from our website www.skywaretechnologies.com