



Key Features

- Inmarsat Global Xpress approved (pending)
- Compact, rugged and lightweight
- Assisted pointing features for rapid satellite acquisition
- Tool-free operation
- Reconfigurable for any terrain
- Sealed RF chain
- All passive cooling for improved reliability
- Optional IATA transport case



EIRP

54.0 dBW @ 30.0GHz

G/T

21.0 dB/K @ 20.2GHz
30°EI, clear skies

Weight (without transport case)

Less than 29kg



ATOM99GX 99cm Ka-band Flyaway Terminal for Global Xpress®



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 its 99cm reflector provides maximum efficiency and best possible radiation characteristics for improved data throughput and availability. It employs a segmented carbon fiber reflector that deploys quickly and accurately with no tools.

The ATOM 99 is pre-approved for out-of-the-box compatibility with Inmarsat's Global Xpress Commercial (29-30 GHz) Ka-Band network. The integrated Ka transceiver houses a BUC, PLL LNB and all associated waveguide components in an IP sealed compact unit requiring no cooling fans. The manual mount provides means to adjust the antenna pointing angle and interfaces to the tripod by way of quick-release catch. The integrated modem module includes pointing assistance features to ease rapid satellite acquisition. The tripod is manufactured from aluminum with adjustable legs which provides a low profile and wide operational footprint while minimizing stowed length.

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DATA SHEET

ATOM99GX

Manual Ka-Band Flyaway Terminal for Global Xpress®

CHARACTERISTIC SPECIFICATION

Electrical

Transceiver Output Power (P1dB)	5W
Power Input	90 - 264 VAC, 47 - 63 Hz, 1.5 metre 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)@ 20.2GHz	21.0 dB/K
EIRP - P1dB @30 GHz	50.0 dBW
Tx conversion gain	54 - 62 dB
Tx Band switching	Yes
Rx conversion gain	55 - 65 dB

Mechanical

Construction multi-segment	5 segments - carbon fibre
Coarse azimuth adjustment	360° on floor
Fine azimuth adjustment	± 35° on tripod
Coarse elevation adjustment	10° - 90°
Fine elevation adjustment	±5°, one turn = .42°

Modem

Modem	outdoor modem (D300 x H95 x W310 mm)
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

ENVIRONMENTAL

Temperature (operational)	-25° to +55°C (-13° to +131°F)
Temperature (storage)	-40° to +80°C (-40° to +176°F)
Solar loading	500W/m ²
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) - optional carbon fibre struts available
Wind-load functional (survival)	80 mph (tethered)
Altitude functional (survival)	5000m

WEIGHTS

Terminal weight	less than 29kg
Flight case	to be advised
Optional IATA compliant cases* (each)	15kg (W750 x D450 x H380 mm)

*Unloaded

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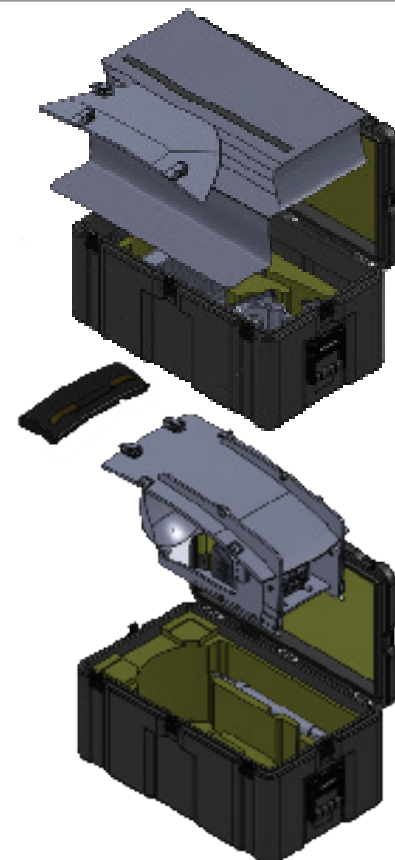
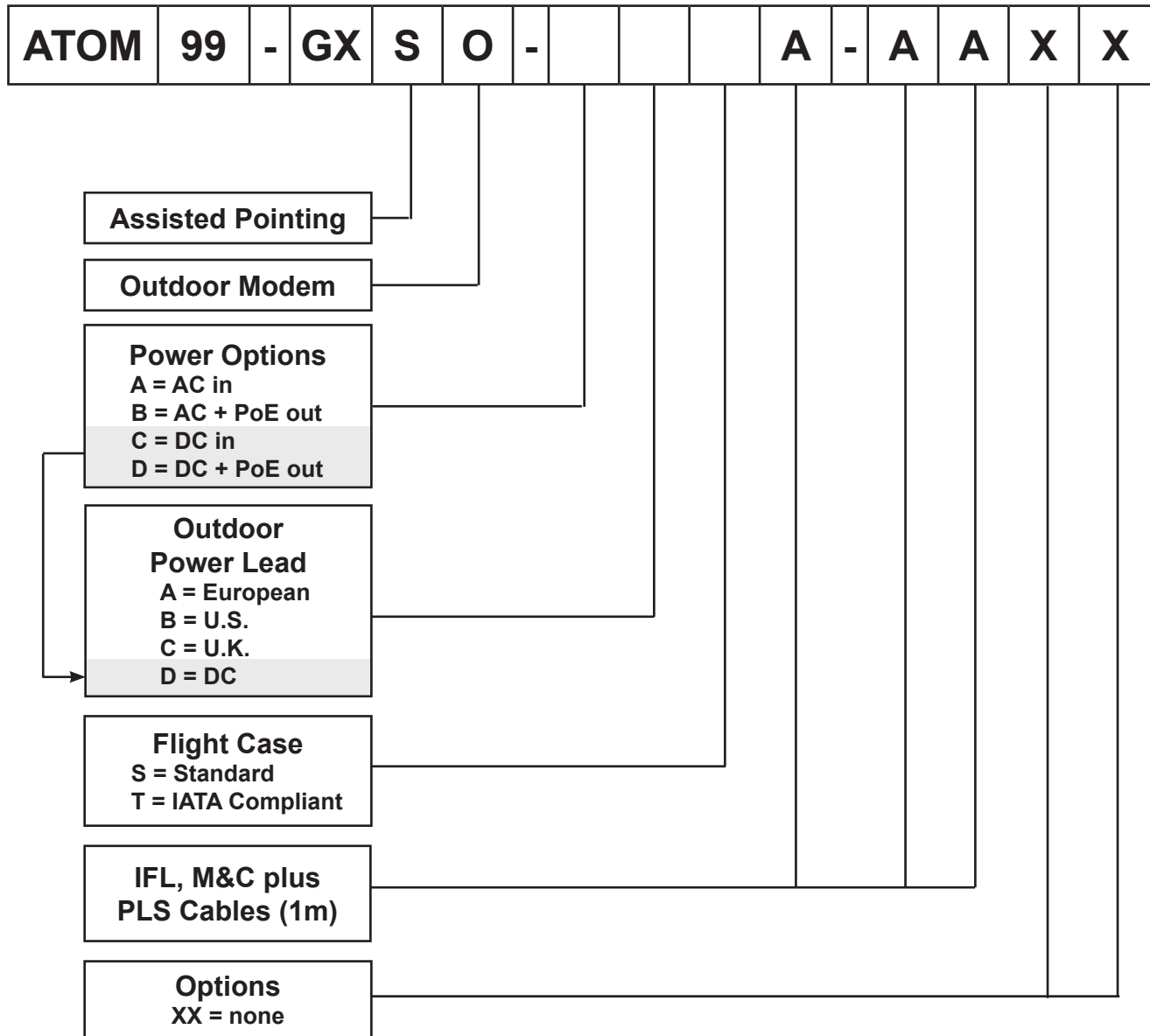


Fig. Optional IATA transport cases



ATOM99GX 99cm Ka-band Flyaway Terminal for Global Xpress® with Assisted Pointing

Terminal Part Number Configurator



Example: ATOM99-GXSO-ABTA-AAXX defines a 99cm ATOM Global Xpress® Flyaway Terminal with an outdoor modem, AC powered with US power lead, IATA compliant flight case, plus 1m IFL, M&C and PLS sensor cables and no other options.

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