AirTRx™ 30Ka
12-inch (30 cm) Business Aviation Satellite Communication Terminal

The innovative AirTRx 30Ka airborne satcom system is a new generation of aero terminal design bringing the lowest cost of ownership, providing full Ka band high-speed connectivity for mid-size to larger business jet platforms.

The best-in-class terminal is based on an advanced architecture with 2 Line Replaceable Units providing easy installation, ease of maintenance and superior RF performance, leading to the lowest Total Cost of Ownership (TCO) system in the industry.

The AirTRx 30Ka groundbreaking design makes the terminal compact in size, the lowest weight on tail (less than 22 Ibs./10Kg) and has the lowest power consumption of any 12"/30cm terminal on the market.

The terminal was developed specifically for a wide range of Business Aviation

Aircraft, from super mid-size to large ones, save space in cabin by enabling both pressurized and unpressurized installations of the ARINC 600 4MCU MODMAN with an integrated iDirect iQ800 core module and integrated IF switch to support external modems.

The AirTRx 30Ka complies with industry regulations and support of external modem options standards including Federal Communication Commission (FCC), European Telecommunications Standards Institute (ETSI), and RTCA DO-160G.
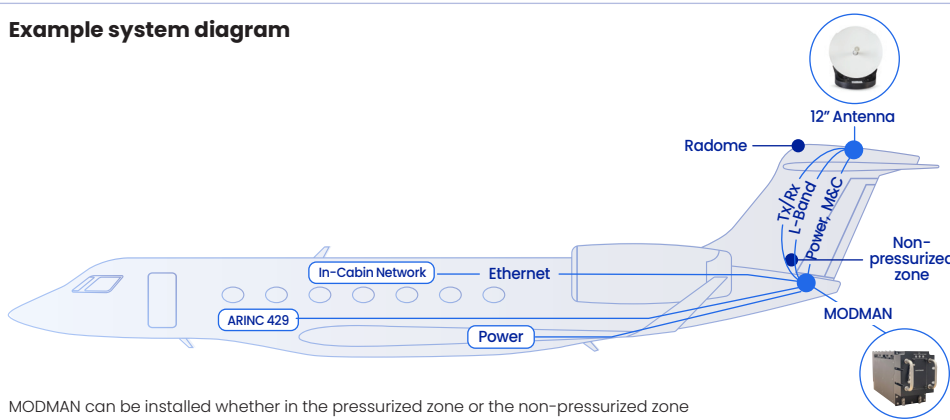
The terminal is intended for use on Ka band satellite networks anywhere in the world, and it supports the full Ka commercial band, providing the flexibility for use Ka broadband satellite networks.

The RF performance is the best-in-class where the terminal is capable of speeds up to 130Mbps and has been designed to work on LEO, MEO, HEO and GEO satellite networks. The antenna with its MODMAN provide the ultimate flexibility in terms of integration with third party systems and platforms.

Key Features

- FCC and ETSI compliant design
- Lowest Total Cost of Ownership (TCO)
- Only Two (2) LRUs – Antenna and MODMAN
- Unpressurized / Pressurized vessel MODMAN installation
- Best Size, Weight and Power (SWaP) in class
- Full Commercial Ka band support
- Compatible with super mid-size jets swept volume
- RTCA DO-160G Certification
- Advanced Web User Interface
- Dual polarization support for Tx/Rx

Example system diagram

12" Antenna
Radome
Tx/Rx
L-Band
Power, M&C
Non-pressurized zone
In-Cabin Network
Ethernet
ARINC 429
Power
MODMAN

MODMAN can be installed whether in the pressurized zone or the non-pressurized zone

Orbit AirTRx 30Ka Terminal

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