

NAT STX100 AVIATION COMMUNICATION SYSTEM



The NAT STX100 is a fully certified* airborne communication system capable of both voice and data operations while in the air. Developed by Northern Airborne Technology Ltd, the system is constructed as a compact, lightweight, aircraft grade unit, providing easy installation and integration.

Flight crews can access the system through the aircraft audio panel using Northern Airborne's PTA12 Dialer/Headset interface unit. This permits full headset operation while a handset may be used in parallel to provide independent access from the cabin.

Data may be accessed directly from the STX100, supporting both asynchronous and packet data formats for all your remote communication needs.

Technical Specifications:

Inputs:

Power: 27.5 VDC
Operating Current: 0.4 A (Standby),
0.8 A (Receive), 2.5 A (Transmit)

System Specifications:

Uplink Band (Reverse link):
1610.5-1621.35 MHz
Downlink Band (Forward link):
2483.5-2500.0 MHz
Data Interface:
RS232 (19200 bps, 8-N-1)
RF Power Output:
2 Watts maximum (+33 dBm)
Operating Mode: Full duplex
RF Input/Output Impedance: 50 Ohms
Remote Interface: POTS (2-wire)

Environmental:

Temperature (Operating):
-30 °C to +60 °C
Temperature (Survival):
-40 °C to +85 °C
Vibration: DO-160D Cat.(SM)
Shock: DO-160D Cat.B
Humidity: 95%
Altitude: 50,000 ft

Mechanical:

Dimension: 7.24"H x 11.20"D x 2.25"W
Weight: 8.4lbs

The soft tactile touchtone keypad of the PTA12 provides a standard DTMF (Dual Tone Multiple Frequency) encoder dialing capability, while other features include precision controlled tones, reverse polarity protection, RF filtering, LED backlighting and solid state switching.

Advantages:

- Voice and data capable
- Easy cockpit integration
- Aircraft grade enclosure
- Lightweight, compact
- Tray mount

Approvals:

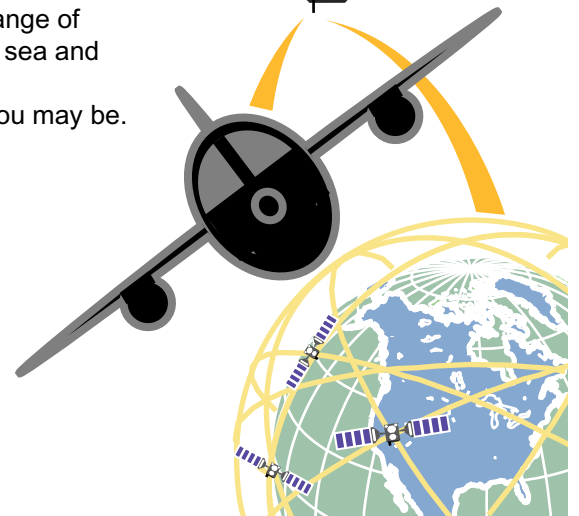
- Transport Canada and U.S. FAA STC's
- Industry Canada: 993B-STX100
- Compliance to FCC Part 15
- Verification to FCC Part 25

Qualification:

RTCA DO-160D

* When used with the S67-1575-164 Antenna.

Globalstar, the world's most popular handheld satellite phone service, provides voice and data communications from virtually any place on earth through a constellation of low-earth-orbiting (LEO) satellites. Offering a range of equipment specially designed for air, sea and land applications, Globalstar is the communications solution wherever you may be.



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