

NX4110

Tait[®] TM8000 Series Data Modem

A REVOLUTION IN MOBILE COMMUNICATION SYSTEMS

"the NX4110 integrates easily into existing analogue voice networks providing the benefits of both voice and data without major re-investment in radio hardware"

FEATURES*

- Uncompressed data to 8,000bps
- Built In GPS Receiver
- POCSAG Paging capability
- · Event Logging capability
- Remote digital I/O ports
- 12.5Khz or 25Khz operation
- Automatic Transceiver control
- TX Forward / Reverse Power Monitoring
- RSSI, DC Power and Temperature Monitoring[†]
- Unique electronic serial number
- Field programmable
- Simple Installation

The NX4110 is a high performance DSP based VHF/UHF modem developed as a plug in option for the Tait[®] TM8000 series transceivers. Supporting raw data rates of up to 8,000 bits per second on a Narrow or Wide Band RF channel the NX4110 data modem affordably provides data rates previously not possible over conventional (unmodified) VHF/UHF transceivers.

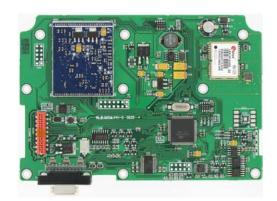
Part of the second generation of Nexion data solutions, the NX4110 incorporates a highly sensitive on-board GPS receiver for accurate tracking in urban canyon environments, POCSAG paging capabilities for message forwarding to an inexpensive wireless pager and data logging when out of radio coverage / network coverage.

Other features include transceiver diagnostics reporting for automated fleet management, AES 128bit data encryption*, remote I/O and selective and broadcast addressing. The NX4110 also incorporates intelligent data protocols to minimise or eliminate data collisions.

Pre-configured out of the box for the Tait[®] TM8000 Series radio, NX4110 installation and operation is as simple as plug and play.

VHF / UHF Data Modem

NX4110



SPECIFICATIONS*

Radio Requirements Data Transfer Rate Error Correction and Detection Modes of Operation Audio Bandwidth RS-232 Serial Ports Remote Digital I/O's Transceiver Control	Tait [®] TM8000 series VHF/UHF Transceiver (not supplied) 4,000 and 8,000 bps (Raw) Variable FEC, CRC Broadcast/Transparent/Custom/Store & Forward (1 hop) 400-2500 Hz ± 3dB (Unprocessed / Flat Audio) 2 (1 x 5 Wire + 1 x 3 Wire) 2 x Input, 5 x Output (Optional) Yes, via internal Tait [®] CCDI Interface
Paging Facility	512bps POCSAG (limited to 5 watts TX power)
GPS	50 Channel u-Blox [®] 5 Engine -160 dBm Tracking Sensitivity Under 40 second Time-To-First-Fix for Cold Starts (open sky) Under 2 second Time-To-First-Fix for Hot Starts (open sky)
Logging	GPS / Custom Applications* (on-board 2Mb memory)
Operating Temperature Primary Power Size	-10° to +60° C 12 V DC nominal @ 195mA 10-16V DC operating range As per Tait [®] TM8000 internal options board specifications

* Please Note ...

- **1.** Features and specifications subject to change without notice and/or obligation.
- 2. Custom features or user specific applications available upon request.
- 3. Check with your Tait[®] dealer to ensure suitable firmware is fitted to the TM8000 series transceiver.

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