

NTX FM TRANSCEIVERS

- Low Power Consumption
- Fast Lockup/Scan Times
- Fully Modular Construction
- Scrambling/Encryption Option
- Multiple Scan Modes
- Compact Size and Weight
- Optional 2 Channel Guard Receiver (NTX138)
- CTCSS Tones
 - DCS/DPL

The NTX Series FM transceiver is the next generation of NAT's powerful Tac/Com product line. Combining NAT design innovation with advanced manufacturing techniques, these radios provide a smooth upgrade path within the Tac/Com™ product family.

Using microprocessor controlled digital technology, the NTX radio is capable of high speed scanning, high volume channel storage, and is compatible* with the Tac/Com II™ control head. The split shell design of the NTX makes servicing simple and quick, translating into low cost of ownership, and low MTTR. The NTX supports all the demanding needs for both current and future applications, including CTCSS tones, DCS, multiple high speed scan modes, high/low TX power selection, and front panel programmable wide or narrow band capability. Depending on the model, optional features can include a 2 channel dedicated real time guard (USFS compatible), selectable bandwidth filters, encryption and DF outputs.

Unlike many existing wide band radios that may suffer from badly degraded selectivity and noise characteristics, the NTX series has the razor sharp RF performance of a narrow-band radio coupled with agility, scanning speed and wide coverage. Operators in high density radio traffic areas will experience improved freedom from interference even when scanning across dozens of channels.

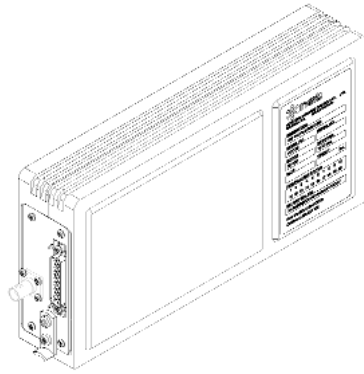
A major advantage of the NTX is its compact 1/4 ATR size (2.0" wide, 5.1" high and 10.5" deep). A total weight of less than 4.5 lbs (2.2 kg) including the mounting tray, makes the NTX one of the lightest transceivers of its kind. The system interconnect is minimized by using serial communications between the remote control head and the transceiver.

Available in several bands, the NTX series offers flexibility, reliability and a light weight alternative to existing FM transceivers.

** NTX interface card required.*



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General:

Weight 4.0 lb / 1.8 kg
Power RX 0.4 A @ 28 VDC
 TX 2.5 A @ 28 VDC
Operating Temp. -30 C to + 60 C
Environmental DO-160C
 Env. Cat. B4-BA[MN]
 XXXXXAB[AB]BAUAXXX

Channel Increments 2.5 kHz
Tone Capability 38 CTCSS 67.0 - 250.3 Hz
 DCS/DPL
Scan Rate >10 channels/second
Operating Mode F3E simplex or
 semi-duplex
Audio Output 100 mW / 600 ohm
 nominal
Microphone Amplified dynamic or
 equivalent
Sidetone Output 50 mW / 600 ohm
 nominal

Transmitter:

RF Output Power 1 W or 10 W (selectable)
Duty Cycle 20% (10 W)
Carrier Attack Time 150 milliseconds typical
Conducted Spurious < 60 dBc

Frequency Stability $\pm .0003 \%$
Distortion 2% typ 5% max.,
 300 - 3000 Hz
Rated Deviation ± 5.0 kHz Wideband
 ± 2.5 kHz Narrowband

Receiver:

Reference Sensitivity 0.35 uV for 12 dB SINAD
Adj. Channel Sel. >70 dB (25 kHz)
 >60 dB (12.5 kHz)
Intermodulation >70 dB
Spurious Rejection >70 dBm typical
Hum/Noise Ratio 40 dB unsq./70 dB sq.
Frequency Response 300 Hz - 3 kHz, +1/-3 dB to 6
 dB/octave de-emphasis
 (EIA)
RX Recovery Time 150 milliseconds max.
AF Characteristic EIA std. +1/-3 dBm
 maximum to
 6 dB / octave pre-emphasis
FM hum/noise ratio 34 dB narrow band
 40 dB wide band

Nominal specifications. May vary between model versions. Contact factory for exact specifications.

NTX066:

66,000 MHz to 87.9975 MHz
 128 Channel memory
 2.5 kHz channel increments

NTX138:

138,000 MHz to 173.995 MHz
 128 channel memory
 2.5 kHz channel increments
 USFS contract compliant with optional guard
 Narrow / Wide Band selectable per channel

NTX403:

403,000 MHz to 511.9975 MHz
 128 channel memory
 6.25 kHz channel increments
 Narrow / Wide Band selectable per channel

Options:

2 channel guard receiver
 DF output
 AM receiver for UK / Australia