

# Codan NGT MRx Military Transceiver

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### SPECIFICATIONS

Part No	Strategic HF Radio System - Deployable
Power Supply	100-240 VAC $\pm 10\%$ , 50/60 Hz
Channels	600
Frequency Range	Transmit: 1-6-30 MHz Receive: 250 kHz-30 MHz
Frequency Stability	$\pm 0.5\text{ppm}$ (-30C to 60C)
Receiver Sensitivity	-125 dBm (10 dB SINAD)
Intermodulation Distortion	>32 dB below PEP
Suppression	>60 dB below PEP (spurious and harmonics)
Operating Temperature	-10° C to +60° C
Receive Audio	Easitaik DSP filtered audio
Power Amplification	125/500/1000 W PEP $\pm 1\text{dB}$
Duty Cycle	100%: Normal Speech overfull temperature range 100%: all modes up to maximum ambient 45° C
Operating mode	Single sideband (J3E, USB, LSB, AM)
Interface	RS232, 300-19200 baud, 2/4 wire, Ethernet (OEM)
Input/Output Impedance	50 Ohm
Protection	Safe under all load conditions Bypass to 125W PEP
Spurious and harmonic emissions	Better than 60 dB below PEP
Size	5RU, 33.6 L X 22.6W x 13.1 H



	(x2) 7RU, 33.6 L X 22.6W x 16.1 H (x1)
Weight	236 lb/107 kg (500 W) 244 lb /111 kg(1000W)

The Codan NGT MRX series of Strategic HF Radio Systems is a self-contained, easily-deployed family of radio systems, used with the following equipment:

- ✓ Codan NGT MR HF Transceiver
- ✓ 3061 500W or 3062 1000W Power Amplifier
- ✓ CODAN voice/data accessories

## Features [AT Communication ©](#)

- ✓ Email, Fax. GPS Tracking and Telephony Support
- ✓ 125W/500W/1000W RF Power Output
- ✓ Ease of use and programming
- ✓ JITC Certified MIL-STD-188-141B ALE
- ✓ FED-STD-1045 ALE/CALM
- ✓ MIL-STD-110B data (with Modem)
- ✓ Commercially transportable
- ✓ Highly deployable. stackable, Interlocking case system
- ✓ Optional antenna and accessories
- ✓ Dual and split site configuration
- ✓ Over The Air (OTA) control monitor capabilities
- ✓ Legacy System Interoperability
- ✓ Multiple COMSEC Solutions
- ✓ Type-1 COMSEC Interoperability o KY-99 o KY-100

## Ease of Deployment

The systems are self contained and easily configured for operation. The operator simply places transit cases in a stacked or staggered configuration on a bench or on the ground, and connects the appropriate cables. The control console or handset may be located in a separate location from the control and PA cases. Codan OTA (over-the-air) control and monitoring capability maximizes system performance and deployment effectiveness.

## System Options

High Power Transceiver Systems

- ✓ 500 Watts
- ✓ 1000 Watts

#### Remote & Split-Site Transmitter and Receiver Systems

- ✓ Slave transmitter or Slave Receiver
- ✓ Slave RX/TX operate via 2-wire or 4-wire
- ✓ 4 wire interface for use over radio links

#### Radio Over Internet Protocol (ROIP) Software Integration

- ✓ Interoperate with legacy and deployed systems
- ✓ Use of up to 4 radios
- ✓ Support of multiple vendor interface

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#### **Codan NGT MRx Military HF Transceiver- Strategic HF Radio System**