

# Codan 3160 Military HF Amplifier

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### 125 W OUTPUT POWER, 1.6 TO 30 MHZ

Complementing the exceptional features of a 2110M,2110T transceiver the Codan 3160 Power Amplifier increases the output to 125 W across the full HF spectrum.

The output power can easily be changed between 125 W, 25 W or 5 W from the transceiver front panel.



### BASE AND MOBILE APPLICATION

Packed into a small and rugged unit the 3160 is designed for installation flexibility through its flange mount design and optional mounting bracket system.

### RUGGED DESIGN

The 3160 Power Amplifier meets or exceeds environmental specification for shock, vibration, dust and immersion. It also provides complete protection against reverse polarity, over voltage, antenna mismatch and over temperature.

### SYSTEM INTEGRATED

Specifically designed for the 2110M series transceiver, the Codan 3160 HF Power Amplifier is simple to configure and operate. When connected to a 2110M transceiver the 3160 is automatically detected at power on and ready to use.

In the event of PA failure the combined system will automatically bypass the PA block to ensure continued operation at 25 W. The Codan 3160 Military Power Amplifier's operational status can be viewed on the 2110M,2110T front panel display.

### VOICE AND DATA

The 3160 supports 100% duty cycle for normal speech or data operation.

## ACCESSOREISS

Mounting Bracket

## OPTIONS

100 W Output Power

Cooling Fan (recommended with Data)

## SPECIFICATIONS

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Frequency range	Transmit: 1.6 to 30 MHz
Power output	125/100 W PEP reducing with frequency to 95 W PEP at 30 MHz +/- 1 dB CW or single tone: approximately 60% of PEP with average PEP control (average control disabled on handset PTT)
Spurious and harmonic emissions	Better than 60 dB below PEP
Intermodulation	125/100 W: 26 dB below each tone 32 dB below PEP
RF input/output impedance	50 Ohm nominal
Duty cycle (100%)	Normal speech over full temperature range All data modes up to maximum ambient temperature of 45°C (113°F) with Option F
Supply voltage	13.6 V DC nominal, negative earth Normal operating range: 10.8 to 15 V Reverse polarity protected
Overvoltage protection	Shuts down at 16 V DC nominal for duration of overvoltage
Supply current	Output power: 125 W or 100 W Two-tone or CW: 9 to 17 A Receive: 65 mA
Load protection	Safe under all load conditions
Environment	Ambient temperature: -30 to +50°C (-22 to 140°F) Relative humidity: 95% non-condensing MIL-STD-810F:  Low Pressure method 500.4 Rain method 506.4 Humidity method 507.4 Fungus method 508.5 Salt Fog method 509.4 Sand and Dust method 510.4 Immersion (IP68) method 512.4 Vibration method 514.5 Shock method 516.5
Cooling	Convection or fan (option F)
Size	Power Amplifier (PA) 268 mm W x 146 mm D x 77 mm H;

	3.3 kg 11.3 in W x 5.7 in D x 3.0 in H PA with Fan 65 mm W x 35 mm D x 130 mm H; 0.3 kg 11.3 in W x 5.7 in D x 4.1 in H
Weight	Power Amplifier (PA) 2.2 kg (4.9 lb) Fan 0.3 kg (0.7 lb) PA Mounting Bracket 0.5 kg (1.1 lb)
Connector style	RF In: BNC RF Out: 50-239 (LHHF) PA DC Supply Control: 12 pin military

**Codan - HF - Power - Amplifier - 2110M - 2110T - Military**