

TT55 Series COFDM Telemetry Transmitter

420-450 MHz, 902-928 MHz

100 mW / 250 mW

Never lose contact with your video transmit site again!



AMP's TT55 Series 5.5 cubic inch COFDM Telemetry Transmitters are designed to provide a reliable means for data transmission in severe multipath environments such as metropolitan areas.

Typical applications include remote control of PTZ camera, dynamic video link configuration (change channels, power settings, encryption keys etc), and other transmit-site peripheral control

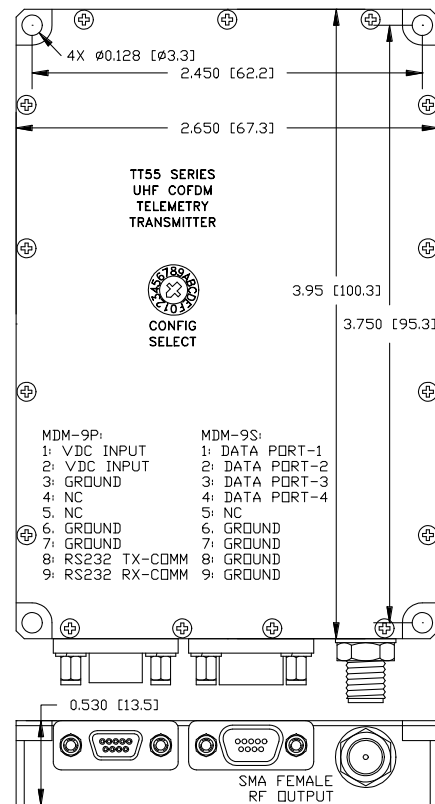
TT55 is equipped with 128-bit or 256-bit AES Encryption scheme. It also employs a concatenated coding mechanism (Reed Solomon and Convolutional Codes with interleaving) with specific code lengths making the transmitted packets highly secure.

15 programmable configurations may be set through the transmitter's RS232 serial interface and then locally selected with a rotary switch accessible through the chassis lid.

TT55 Series Transmitters have been designed to withstand harsh environments and are ideal for law enforcement, surveillance, UAV, UGV, military and other applications requiring transmission of secure data in a compact, rugged package.

Design Features:

- 5.5 Cubic Inch Package (2.65"x3.95"x0.53")
- Up to 250 mWatts RF Output Power
- 15 Programmable Config Presets (Rotary Switch)
- Packet based, bursty transmission
- QPSK/16QAM modulation with combined data rate range of 15 kbps to 1.5 Mbps
- AES 128-bit or 256-bit Encryption
- Robust concatenated coding scheme
- 100 kHz, 250 kHz, 500 kHz, and 1 MHz Occupied Bandwidth Settings
- Up to four data ports supporting RS-232 and/or RS-485
- Compatible with all AMP COFDM Video Receivers



** NOTES:

- 1) NC = No Connection
- 2) Unused Data Ports should be left disconnected (open)



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AMP TT55 Series COFDM Telemetry Transmitter

RF Characteristics

Frequency Range (Specify):	420-450 MHz or 902-928 MHz
Channel Spacing:	Equal to Bandwidth Setting
Frequency Selection:	Channelized (Programmable Rotary Switch)
Frequency Stability:	±5ppm Over -20°C to +50°C
Output Power (Specify):	100 mW or 250 mW
Output Impedance:	50 Ω Nominal, VSWR 2:1 Maximum
Output Protection:	Open/Short Indefinitely
Occupied Bandwidths:	100 kHz, 250 kHz, 500 kHz, or 1 MHz - Selectable
Spurious Output:	-13 dBm Maximum

COFDM Link Characteristics

Modulation Type:	QPSK or 16QAM - Selectable
Decryption (Specify):	None, AES 128-bit, or AES 256-bit
COFDM Carriers:	Approximately 40
FEC Ratio:	1/6 to 1/2 - Selectable
Guard Interval:	1/4 to 1/16 - Selectable
Latency:	<1 msec, End to End

COFDM Data Characteristics

Data Ports:	Up to 4 - User Configurable
Interface Type:	RS-232 or RS-485 Half Duplex Ports - User Configurable
Supported Data Rate Range:	15 kbps to 1.5 Mbps Combined, Configuration Dependent - User Configurable

Configuration Interface Characteristics

Interface Type:	RS-232
Interface Parameters:	9600/8/1/None/None (Baud/Data Bits/Stop Bits/Parity/Handshake)

Power Requirements

Input Voltage:	+11 to +16 Vdc, Reverse Polarity Protected
Current Draw (Typical):	200 mA for 100 mW RF, 300 mA for 250 mW RF, Typical @ 12 Vdc

Mechanical

Material:	CNC Machined T6061-T6 Aluminum	
Finish (Specify):	Nickel Plated or Black Plated	
Dimensions:	2.65" W x 3.95" L x 0.53" H	
Weight:	5 oz. Maximum	
Connectors:	RF Output:	SMA Female
	DC Supply, RS-232 Comm:	MDM-9P
	Data Ports:	MDM-9S

Environmental

Temperature (Operating):	-20°C to +50°C
Acceleration:	100 g, 3 Axes
Altitude:	Unlimited
Humidity:	Up to 95% @ Any Temperature Forming Frost or Condensation