



The TD Series FM transmitters cover frequencies from UHF to C-band with output power levels up to 20W. Pre-modulation filters with the selection of up to 4 data rates are available as well as NTSC or PAL analog video pre-emphasis with up to two metadata subcarriers. The TD transmitter is designed to handle analog and digital signals in the same unit.



Its optimized design provides minimum size, weight and power consumption enabling deployment in virtually all platforms. The TD transmitter is used in conjunction with the RDA or LIDL receiver for a complete solution.

KEY FEATURES:

- Low Cost, Size, Weight and Power (SWaP)
- Ruggedized and Compact
- Vortex® Compatible
- Qualified on Multiple Programs
- Deployed on Numerous Platforms

TD Series Transmitter



TD-20 Transmitter



TD-10 Transmitter



TD-5 Transmitter

TD TRANSMITTER SPECIFICATIONS

RF

Frequency	50 kHz (or larger) steps over 15% bandwidth from 400 MHz to 6 GHz
Frequency Select	Via serial (RS-232 or RS-422) or parallel
Frequency Stability	± 20 ppm over environment
Output Power	20 watts minimum
Output Impedance	50 ohms, 1.5:1 maximum VSWR

MODULATION

Type	True FM, Positive Sense
Input Impedance	Customer specified
Digital Data Rate	Customer specified with up to 4 data rates
Frequency Response	10 Hz to selected filter cutoff ± 3 dB
Deviation	Adjustable, set to modulation index of 0.7
Analog Video	Frequency response from 6 Hz to 5 MHz ± 1 dB, per NTSC or PAL pre-emphasis
Subcarriers	Up to 2 subcarriers for Metadata, 5 to 9 MHz center frequency, up to 256 kb rate
Incidental AM	5% maximum
Incidental FM	10 kHz p-p maximum

DC POWER

Input Voltage	+24 to +32 VDC @ 6.0 amperes maximum
Reverse Polarity	Protection to -40 VDC

MISC

Size and Weight	4 x 6 x 1", 30 ounces maximum
RF Output Connector	SMA Female
DC Power/Data Input	DT02H-8-4PN
Control/Data Input	MDM9S or MDM15S
Operating Temperature	-20 to +70°C baseplate
Vibration	20 g rms, 3 axes
Shock	100 g, 11 milliseconds, 3 axes
Acceleration	100 g, 3 axes
Humidity	Up to 95%, non-condensing
Altitude	Unlimited