



**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**

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

**MODULATION**

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

**DC POWER**

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

**MISC**

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