

TXVD / TXUD Series

VHF and UHF digital transmitters



• Full color touchscreen display

- Internal band pass filter (mask)
- Internal RF isolator (all UHF, high band VHF only)
- 2 stage amplification
- Class A/AB operation
- Linear and non-linear pre-correction with Technalogix TM600-8VSB modulator
- Automatic adaptive pre-correction available with TM700-8VSB modulator
- Designed for adjacent operation
- Ultra efficient switching power supply
- 2 Year Warranty

RISTICSRF CHARACTERISTICS

Frequency Range Input Power Nominal Output Power (8VSB)

Power Level Input Impedance Output Impedance Modulation MER BER SN Phase Jitter Shoulders VHF 50 – 230 MHz, UHF 470 - 860 MHz 0 dBm into power amplifier from modulator VHF (25W, 100W, 250W, 500W, 1kW, 2kW) UHF (30W, 40W, 50W, 100W, 250W, 500W, 700W, 1kW, 2kW) Adjustable 10 – 100% 50 Ω into amplifier, BNC female 50 Ω , N or 7-16 DIN female (dependent on power level) 8VSB, QAM, DVBT/H, etc (output power will change between standards) >36 dB typical >38 dB typical >40 dB typical >104 dB >-50 dB typical, ATSC mode compliant to ATSC A53/B



Typical Performance Specifications (TM700-8VSB + TAVD/TAUD Amplifier)



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INTERFACE

DB25 Remote Port	Control: Monitor: Flags:	RF carrier on/off, RF power up/down, reset Forward/reflected RF level, control PCB Vcc Amplifier overdrive, VSWR (adjustable trip point), high temperature
Ethernet	Control: Monitor: Flags:	RF carrier on/off, RF power up/down, AGC/manual mode, change VSWR trip point, reset Forward/reflected RF level, DC pallet voltage, RF input level, temperature, VSWR trip point, model/serial number Carrier on/off, amplifier overdrive, DC pallet voltage, VSWR, RF input level, temperature, AGC/manual status
SNMP	Control: Monitor:	RF carrier on/off, RF power up/down, AGC/manual mode, change VSWR trip point, reset
current,	Flags:	attenuation, run time, RF fault, model/serial number Amplifier overdrive, VSWR, temperature, SNMP error







Screenshots off Touchscreen Interface

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	Switching	Non-	linear Precorrector		RF Output					About			
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Screenshots off Modulator Interface



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PHYSICAL FEATURES

Minimal Rack Space	VHF PA (25W in 3U; 100W/250W/500W in 5U; 1kW in 6U+3U PSU; 2kW in 12U+5U PSU) x 25"D x 19"W * UHF PA (30W/40W/50W in 3U; 100W/250W/500W/700W in 5U; 1kW in 6U+3U PSU; 2kW in 12U+5U PSU) x 25"D x 19"W *
	* Technalogix digital modulators add an additional 2U in height to any PA
Lightweight Enclosures	Aluminum
Operating Temperature	0 to +45 °C
Humidity	90%, non-condensing

ELECTRICAL CHARACTERISTICS

Flexible AC Input

VHF PA (25W 90-132Vac or 180-264Vac (switch); 100W 90-132Vac or 180-264Vac (jumper); 250W/500W/1kW/2kW 180-264Vac) UHF PA (30W/40W/50W 90-132Vac or 180-264Vac (switch); 100W 90-132Vac or 180-264Vac (jumper); 250W/500W/1kW/2kW 180-264Vac) Other AC supply voltages and phases available on request

TYPICAL BLOCK DIAGRAM



** Due to continuous product improvements, Technalogix reserves the right to change specifications without notice. **