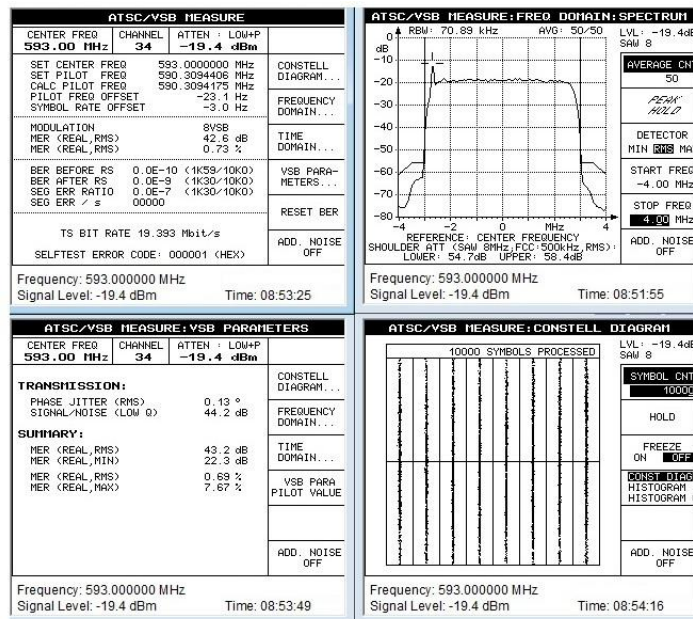




- Full color touchscreen display
- Internal band pass filter (mask)
- Internal RF isolator (all UHF, high band VHF only)
- 2 stage amplification
- Class A/AB operation
- Linear and non-linear pre-correction with TM600-8VSB modulator
- Automatic adaptive pre-correction with TM700-8VSB modulator
- Designed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

RF CHARACTERISTICS

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



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

ELECTRICAL CHARACTERISTICS

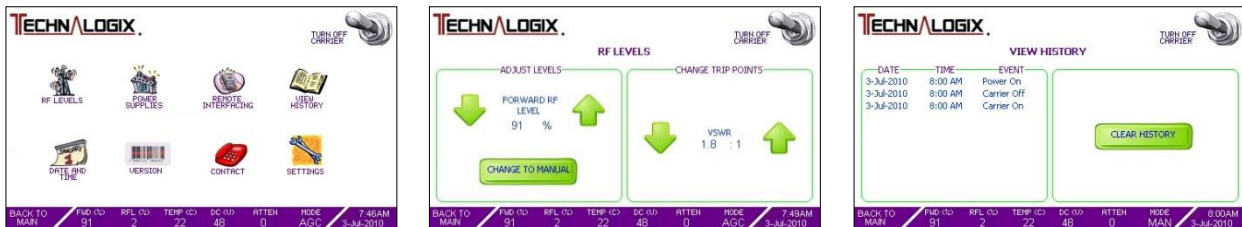
Flexible AC Input	VHF PA:	25W/100W/250W/500W - 90-264Vac
		1kW/2kW - 180-264Vac
	UHF PA:	25W/100W/250W/500W - 90-264Vac
		1kW/2kW - 180-264Vac

Other AC supply voltages and phases available on request

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

INTERFACE

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



Screenshots off Touchscreen Interface



Screenshots off Modulator Interface

PHYSICAL FEATURES

Minimal Rack Space	VHF PA: 3U – 25W; 5U – 100W/250W/500W; 6U – 1kW; 12U – 2kW	x 25" (D) x 19" (W)
Lightweight Enclosures	UHF PA: 3U – 30W/40W/50W; 5U – 100W/250W/500W/700W; 6U – 1kW; 12U – 2kW	x 25" (D) x 19" (W)
Operating Temperature	Modulator: 2U	
Humidity	Aluminum	
	0 to +45° C	
	90%, non-condensing	

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