

## TOWER TOP PREAMPLIFIERS WITH INTEGRATED PRESELECTORS

Telewave.io Integrated Tower Top Preamplifier systems recover low-level signals from long or high loss transmission lines and optimize system performance. The Telewave.io system allows single, multi-band and/or multi-window operation in the 300-400, 400-512, 793-824, and 806-901 MHz receiver bands.

The RF preamplifier is designed with two PHEMT devices in a redundant hybrid configuration. A single device failure causes a 6 dB reduction in gain, but the amplifier continues to operate with stable impedance. This provides high operational reliability. Very low loss input circuits provide the best possible noise figure. DC surge and reverse voltage protection is provided.

The preselector filter systems incorporate combine, cavity and multi-window technologies.



**TTPA-3548 Tower Top  
Preamp/Preselector**

Each filter is custom designed to operate in the most adverse RF environments.

The base power supply provides DC coupling and decoupling to the transmission line and connection to the receiver distribution system.

DC current levels are adjusted and monitored with a built-in metering panel.

The enclosure is fully weather-sealed, compliant with NEMA 4.

ELECTRICAL SPECIFICATIONS			
Frequency ranges	300-512, 793-824, 896-901 MHz		
System gain (max, single band)	17 dB (factory adjusted)		
3rd order intercept (typ)	+40 dB		
Noise figure (typ)	0.8 dB		
VSWR	1.3:1		
Lightning protection	Impulse supressor (Polyphaser)		
Power requirements	+15 VDC / 280 mA (+12 VDC opt.)		
Temperature range	-40°C to +70°C		
MECHANICAL SPECIFICATIONS		Dimensions (HWD) in. (cm)	Weight lb. (kg)
Tower box	TTPA-4586	24 x 20 x 12 (61 x 51 x 31)	39 (17.7)
	TTPA-8626	16 x 16 x 6 (41 x 41 x 15)	39 (17.7)
	TTPA-8690	16 x 16 x 10 (41 x 41 x 25)	39 (17.7)
Base supply		19 x 3.5 x 7.25 (48 x 9 x 14)	4.7 (2.1)
Finish	Tower box	NEMA 4 - Gray polyester powder coat	
	Base supply	Grained aluminum	
Connectors	N Female		