

TATC-8644-3R

4 CHANNEL AUTOTUNE COMBINER

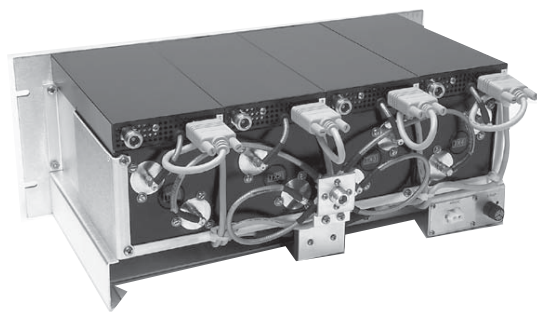
The Telewave TATC-8644-3R is a unique integration of advanced ceramic resonator technology, and high-resolution microprocessor controlled positioning.

Only 7" high and 12" deep, the 4 channel TATC-8644-3R is one of the smallest full power rack-mounted combiners available today for the 800 MHz ESMR and NPSPAC trunking bands. Each cavity immediately tunes to the frequency of an applied RF input signal, or by remote commands via any RS-232 data link.

Each resonator is individually tuned by its own microprocessor, and loss of control electronics on one channel does not affect other channels. In the event of an AC or DC input supply failure, all channels remain tuned to current frequencies with full power output, and a relay opens to provide alarm activation.

The combiner will return to "home" when power is restored, and auto-tuning then resumes immediately. The optional antenna VSWR/output power monitor (PMU2C1S-1R) provides a front-panel LED display for on-site testing, and fully programmable alarm indicators for immediate notification of failure or out-of-range conditions.

PC application software allows remote dial-up for display and recording of all parameters, with history, and status monitoring for each channel.



FEATURES

- TUNING AND POWER FAILURE ALARM
- MANUAL TUNING FROM FRONT PANEL
- FRONT PANEL LED INDICATORS:
 - Power
 - Error
 - Home
 - Tune
 - Link
- OPTIONAL INTEGRATED POWER/VSWR MONITORING FOR EACH CHANNEL
- OPTIONAL PROGRAMMABLE ALARMS FOR LOW POWER / HIGH VSWR
- FULL HISTORY DATABASE
- COVERS 851-869 MHz TRUNKING BAND
- RS-232 REMOTE CONTROL and STATUS
- MANUAL PARKING SWITCH - EACH CAVITY
- PC-BASED APPLICATIONS SOFTWARE
- COMPATIBLE WITH SCHROFF® RACKS
- -48 VDC INPUT FOR iDen® SPEC.
- ACCEPTS iDen® 16QAM MODULATION
- iDen® QUAD-BR COMPATIBLE

TATC-8644-3R

ELECTRICAL SPECIFICATIONS		
Frequency range	851-869 MHz	
Bandwidth	18 MHz	
Minimum channel separation	150 KHz	
Modulation schemes	iDen® 16QAM, TDMA, FM, AM, CW	
Standard input power (continuous)	100 W / Channel	
Minimum tuning power	2 watts	
Maximum tuning time	< 2 seconds, 2 target power ramps	
Insertion loss (4 ch.):	1 MHz	2.5 dB
	500 KHz	2.75 dB
	250 KHz	3.1 dB
TX to TX isolation (min)	65 dB	
Antenna to TX isolation (min)	60 dB	
Input VSWR (typ)	1.25:1	
Temperature range	-20°C to +50°C	
Input voltage	-36 to -72 VDC	
MECHANICAL SPECIFICATIONS		
Dimensions (HWD) in. (cm)	7 x 19 x 12 (17.8 x 48.3 x 30.5)	
Mounting	19" Panel, slide rails	
Compatible with Schroff® racks		
Connectors:	TX inputs	N Female
	Antenna output	N Female or 7-16 DIN
Net weight lb. (kg)	29 (13.2)	
Shipping weight lb. (kg)	37 (16.8)	
OPTIONS AVAILABLE		
1. PMU2C1S-1R - Antenna Power Monitor.		
2. Site Modem (Internal to PMU)		
3. 110 / 220 VAC to +24 VDC Converter		