

Top-Tower Amplifier

Our modular Tower-Top Amplifier (TTA) systems provide superior receiver system performance and excellent electrical reliability by improving base station Up Link (UL) sensitivity. TTA systems overcome link budget imbalance between the Up Link and Down Link (DL) by boosting received signal to overcome received path loss (feeder losses).

- Improved base station UL sensitivity
- Redundant LNA with automatic change over
- LNA bypass modes
- Monitoring & Control via GUI
- SNMP Alarms
- Remote Access

Our TTA systems include Receiver Multicoupler (RCM) and Tower Top Unit (TTA). They are available in 8 ports and expandable, if needed, to 16 or 32 ports.

The tower top unit is enclosed in a rugged, weather-proof Stainless Steel enclosure with a durable finish to resist rusting and corrosion. The enclosure houses best in class lightning surge protector that protects the ports and prevents failure of the unit from lightning strikes.

Base Station Unit has redundant quadrature coupled low noise amplifiers with a built-in bypass capability that provide greater reliability and better performance. This circuit provides useful gain should only one device be operational. A hermetically sealed, high-reliability bypass relay will fully remove the amplifier from the circuit and provide a non-amplified connection from the antenna to keep the system up and running even if the preamplifier totally ceases operation. Bypass modes are activated when DC power to the tower unit is disabled, or damage occurs to the LNA.

The tower housing has two drain holes to release any water due to condensation build up. RF connections stay weather-resistant longer as a result of the protection provided by a 360° drip-edge.

Superior electrical performance starts with a highly selective filter that provides excellent out-of-band rejection with minimum loss. Our preamplifier provides low noise performance (NF=1.8 dB typical) and high intermodulation immunity (TOI=16.9 dB for 10 dB system gain) across standard operating gain levels.



COMPROD

sales@comprodcom.com | comprodcom.com

☎ US 1.877.825.2007 / CAN 1.800.603.1454

FAX 1.800.554.1033

Tower Section	
Frequency Range, MHz	794-824
Bandwidth, MHz	30
Gain, dB	29
Noise Figure, dB	1.8
3rd Order Intercept Point, dBm	14.3
Return Loss, all ports, dB	-20
Surge protection, all ports, μ S	IEC 61000-4-5 5 strikes 26 KA 8/20 μ S 10 strikes 20 KA 8/20 μ S 10 strikes 3 kA 10/35 μ S slow pulse waveform
Integrated Test port, dB	30 dB coupling
Connectors	N- Female
Power, VDC	48
Finish	Stainless steel
Temperature Range, °C	- 40° to +50°
Weight, lbs	14
Size (H x W x L) in	6 1/2 x 8 3/8 x 14 3/4



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TTA: TOWER TOP AMPLIFIER

794-824 MHz



Preliminary view

Base Unit	
No. of RX Output Ports	8, 16, 32
Gain Min./Typical, dB	Control and distribution unit = -5
Noise Figure, dB	2.9
IIP3, dB	33
RF Port Return Loss, dB	-22
Size (H x W x L) in	2 x 10 1/2 x 19
Finish, Front	Black
RX Output Connectors	BNC- Female
TX Connector Type	N- Female
Power Input, Standard	110/220 VAC 50/60Hz, 12W
Weight, lbs	8
Mounting	EIA Standard 19" 1 RU
Temperature Range, °C	-0° to +50°

