

TMB 900 MHz Multi Carrier High Power Outdoor Boosting System

Model No: TMB-M-900-O-52W15



Features:

- Employed best advanced pre-distortion and feed-forward technology
- Support multi-carrier GSM/EGSM or WCDMA with high system efficiency
- 150W Downlink output power, supports multi-carrier amplifier. (Lower / higher Power types are also available)
- Support flexible downlink input either duplexed or un-duplexed
- Support system full diversity
- Downlink and uplink gain adjustable with wide dynamic range
- Lower uplink noise figure
- Comprehensive product monitoring and control (local and remote);
- Centralized system control/display/alarms, Great system reliability supported by architecture built-in redundancy (Optional)
- All Models available operating power of 220/110VAC or -48VDC
- Extensive protection for lightning, voltage surge,
- Compact system size and light weight

Introduction

Wireless operators have used multi-carrier power amplifiers (MCPA) to increase the coverage and capacity of existing base stations. The use of MCPA has increased operator revenues without the excessive costs of adding of swapping out equipment and with no need to build additional cell sites.

The Multi-Carrier High Power Booster system (TMB) provides higher downlink EIRP and improved uplink sensitivity at the same time to extend the coverage of existing networks.

This multi-carrier based product platform can also work with customized BTS to extend capacity of original BTS with a low system total cost. Our MCPA product line (Tower-Mounted and Floor-Mounted) provides cost effective network coverage extension and capacity upgrade solution.

The multi-carrier based product platform can also work with customized BTS to extend capacity of original WCDMA BTS with a low system total cost. The unit is also available for different Cellular bands: 450 MHZ, 800 MHz, 900 MHz, AWS-1700 MHz, DCS 1800 MHz, PCS-1900 MHz, UMTS-2100 MHz and 2600 MHz and support multi-carrier GSM/EDGE, LTE, and WCDMA signals, with mixed mode.



EMTS Telecom Services Ltd. offers a comprehensive portfolio of enhanced coverage solutions for the Wireless Networks, Based on advanced technologies. **EMTS** proven, indoor and outdoor solutions solve a wide range of network challenges including interference and oscillation problems, challenging coverage holes, rapid response deployment and inadequate inbuilding coverage. Regardless of the technology or frequency, **EMTS** can provide customized coverage solutions that address any combination of unique and complex network needs for the Wireless Networks.



Technical Specification

Electrical Specifications			
Frequency range	Uplink	880-915MHz	
(Optional GSM only)	Downlink	925-960MHz	
Output power	Uplink	≥12dBm & Output IP3	
		(max gain) >23 dBm	
	Down	51.8±1dBm (Lower or Higher Power types are also available)	
Gain	Uplink	15±1dB	
	Down	15±1dB	
Max Input Power		43dBm	
Ways numbers		2 inputs, 2 outputs	
Supporting Carriers / way		2/4/8 carriers	
Bypass insertion loss		≤2.0dB	
Input / output voltage standing wave ratio		≤1.5	
Uplink noise figure		≤ 2dB	
Downlink intermodulation attenuation		-55dBc typ.	
Spurious emission		≤-36dBm @9KHz-1GHz	
		≤-30dBm @1G-12.75GHz	
		≤-47dBm @ 825-835MHz	
		≤-47dBm @870-880MHz ≤-47dBm @1800-1920MHz	
		≤-47dBm @1800-1920MHZ ≤-47dBm @3.4G-3.52G	
		≤-98dBm @885-915MHz	
Gain adjustment range		15dB	
Band fluctuations		<+/-1dB Gain Variation Over Temp <+/-1dB	
Load mismatch against		10:1	
Power supply		AC220V±20%, 45∼55Hz	
Mechanical Specific	eations		
Dimensions (L * W * H) (mm)		730*440*330	
Net weight (kg)		45	
Gross weight (kg)		50	
Cooling		Forced air cooling	
Input and output impedance		50Ω	
Environmental Spec	cifications		
Operating temperature		-40°C to 55°C	
Humidity		≤95%	
Protection class		IP65	



About EMTS Telecom Services Ltd.:

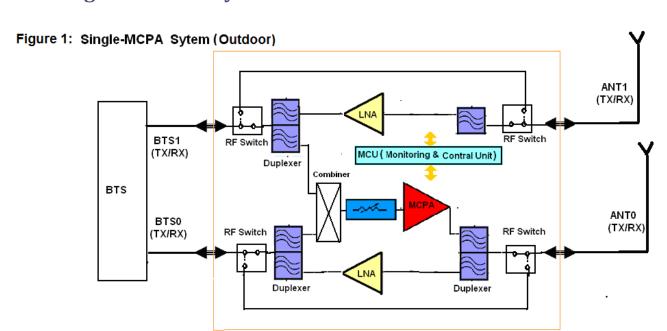
EMTS is a leading supplier of high-quality RF coverage solutions designed to maximize wireless network coverage in difficult RF environments and complex settings. The company specializes in extending RF radio coverage to rural areas, office buildings, subways, tunnels and shadowed areas. The EMTS coverage solution supports all major mobile technologies and standards of wireless Networks. All rights reserved - Specifications are subject to change without notice



Technical Specification (Cont.)

Monitoring features			
Local / remote monitoring	Local: DB-9 RS232 serial port Remote: Wireless MODEM via SMS (SMS)		
Others Specifications			
EMC	ETS 300 342-3		
Lightening	IEC-1312-1		
Connectors	For RF7/16 DIN female / For Alarm pull push mail		
MTBF	100,000 hours		

Diagram of TMB System



Ordering Information:

For full band cellular use model No: TMB-M-900-O -52W15



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