

CDMA1900 40W Tower Mounted Booster (TMB FSA)



The TMB offers a cost-effective solution for extending coverage and improve the Tx and Rx quality of service from either new or existing BTS sites. Used with a micro BTS, the TMB can provide Macro coverage, achieving a low cost and compact solution, particularly suitable for rural applications.

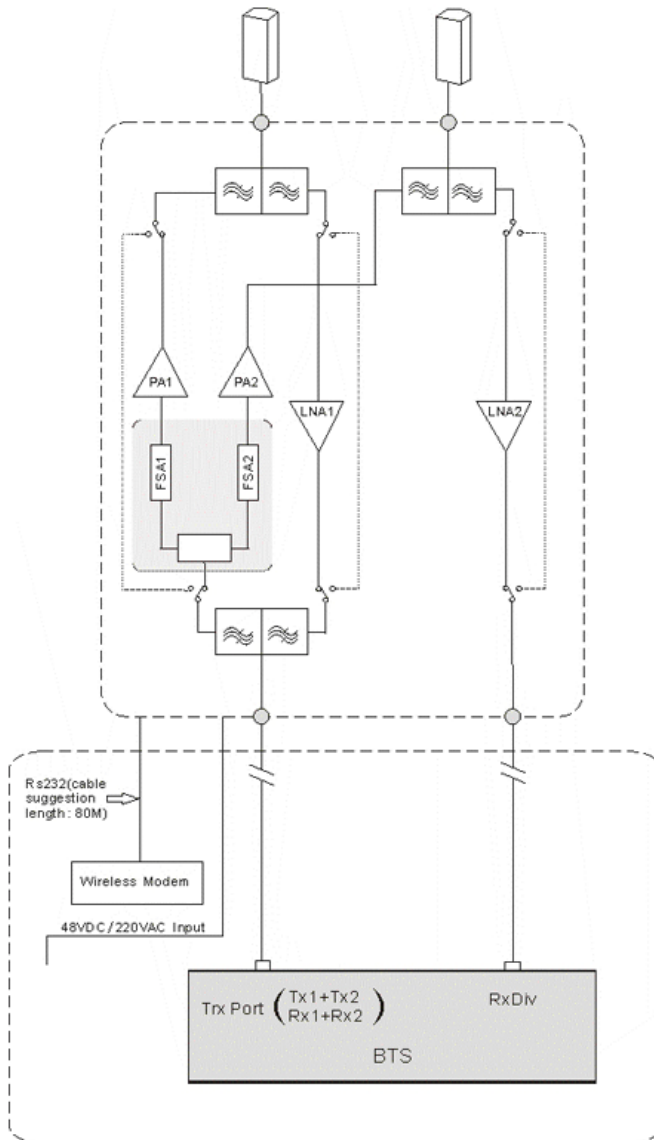
Features

- High output power and excellent stability.
- Adopt advanced filtering technology and miniaturization design.
- High dynamic range.
- Provide indication of power supply, output power of downlink and uplink.
- Frequency Selecting and Amplifying (FSA) module
- Output power is 40W.
- 12dB gain for Rx path.
- Flexible 1/2 carrier configuration to easily work.
- Multiple Power Supply 220VAC, -48VDC.

Specification

TEST ITEM	SPECS. REQUIREMENT	
	Forward(Downlink)	Reverse(Uplink)
Frequency range	1930-1990MHz	1850-1910MHz
Max. output power at ANT port	(46dBm±1dB/ for per carriers)	5dBm(±1dB)
Loss in bypass mode	≤3.5dB	≤3dB
Gain	17 ± 1 dB	12dB
Gain adjustment step length	1dB	/
Automatic level control	yes	
RF Port (at the bottom of TMB)	2 BTS ports: 50Ω N female ; 2 ANT ports: 50Ω DIN female	
Inband flatness	≤1.5dB (peak)	
Noise figure	/	≤3dB
VSWR	≤1.5	
Time delay	≤5.0μs	
Wave quality	>0.950	>0.960
Max input power	27- 43 dBm	
MTBF	> 100000 hours	
Cooling	Fans	
Power Supply (at the bottom of TMB)	-48VDC , Amphenol C16 Connector	
Dimensions H x W x D mm	600 x 450 x 300	
Installation	On the tower or base the BTS according to the detailed original input ANT power on the tower.	
Spurious emission	9kHz-1GHz:-36dBm/100kHz	
	1GHz-12.75GHz:-30dBm/1MHz	
Operating Temperature	-40 to +55 deg C	
Operating	≤95%	
OMC mode	Local or remote through wireless modem	
Monitored Parameters	<i>LNA, PA, PLL, Power Down, Power Fault, Temperature, Door Enable Alarm, VSWR, DL Power</i>	
Controlled Parameters	<i>Soft ON/OFF status, Frequency, Gain, Alarm Temp Threshold, In/Out Power Alarm Threshold</i>	

Block Diagram:



FSA: Frequency Selecting and Amplifying Module