

Dual-band Digital Pico Repeater

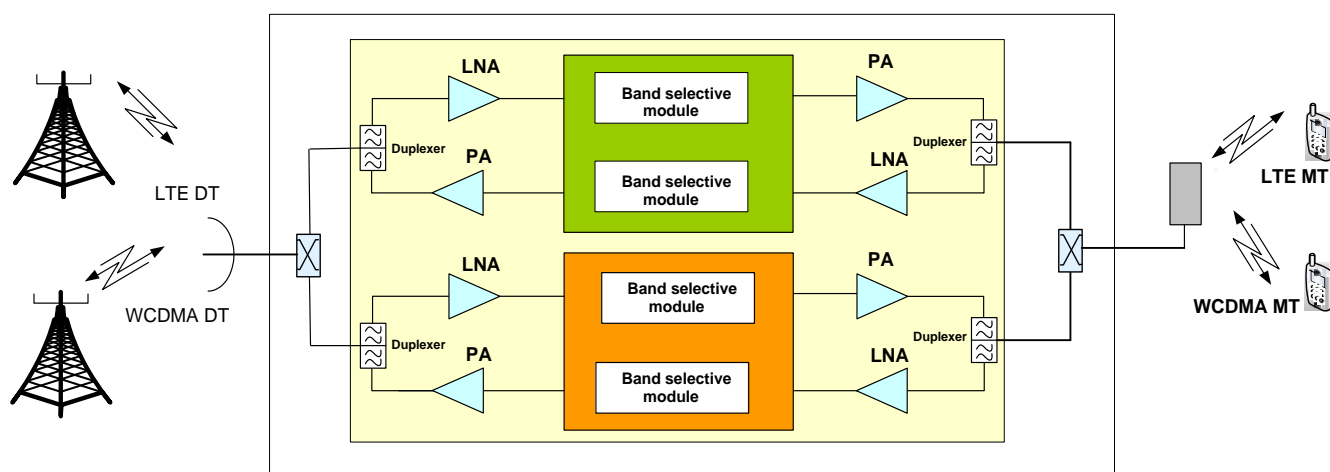
MP-7832

Features

- Bandwidth adjustable for both downlink and uplink.
- Max. 2 pass band segments with independent ON/OFF for maximum flexibility.
- Max. 17dBm total output power.
- Option for single band, dual band or tri-band.
- Offline isolation detection for easy commissioning.
- Low noise amplifier improves system noise figure for better voice quality and reduced drop call.
- Highly integrated design with miniaturized enclosure, small size, light weight and easy to install.
- Includes Modem for remote monitoring (option).
- Compatible to Comba generic OMT and CMS platform.



Functional Block Diagram



Specifications-17dBm

Electrical		1800MHz	2100MHz
Operating Frequency, Uplink	MHz	1710-1785	1920-1980
Operation Frequency, Downlink	MHz	1805-1880	2110-2170
Instantaneous Bandwidth	MHz	50	50
Operating Bandwidth Per Sub-band*	MHz	0.2-25	3-20
Number of Sub-bands		2	
Total Output Power, Uplink	dBm	14	14
Total Output Power, Downlink	dBm	17	17
Maximum System Gain	dB	70	
Attenuation Adjustment Range (1dB step)	dB	0-30	
ALC Range	dB	≥ 30	
Pass Band Ripple at FBW, p-p	dB	≤ 4	≤ 4
System Group Delay	μsec	≤ 6.5	
Spurious Emission Mask		Compliance with 3GPP TS 36.106	Compliance with 3GPP TS 25.106 3GPP TS 36.106
Intermodulation			
EVM			
Absolute Maximum RF input power	dBm	-10	
Input VSWR		≤ 2.8	
Impedance	Ω	50	
Mechanical			
Dimensions, W x H x D	mm	316 x 224 x 41.5	
Weight (approx.)	kg	1.8	
External Power Supply Unit	Input	VAC	100-240/50-60Hz
	Output	VDC	12
Power Consumption	W	30	
Enclosure Cooling		Convection	
Connectors		SMA-Female	
Operating Temperature	°C	-10 to +40	
Operating Humidity		≤ 85%	
Environmental Class		IP30	
MTBF	hr	≥ 50,000	
Remote Monitoring (option)		Built in WCDMA Modem	

Note: Typical specification at room temperature;

*: GSM Max. Bandwidth 25MHz, WCDMA Max. Bandwidth 15MHz, LTE Max. Bandwidth 20MHz.

Specifications-13dBm

Electrical		1800MHz	2100MHz
Operating Frequency, Uplink	MHz	1710-1785	1920-1980
Operation Frequency, Downlink	MHz	1805-1880	2110-2170
Instantaneous Bandwidth	MHz	50	50
Operating Bandwidth Per Sub-band*	MHz	0.2-25	3-20
Number of Sub-bands		2	
Total Output Power, Uplink	dBm	13	13
Total Output Power, Downlink	dBm	13	13
Maximum System Gain	dB	70	
Attenuation Adjustment Range (1dB step)	dB	0-30	
ALC Range	dB	≥ 30	
Pass Band Ripple at FBW, p-p	dB	≤ 4	≤ 4
System Group Delay	μsec	≤ 6.5	
Spurious Emission Mask		Compliance with 3GPP TS 36.106	Compliance with 3GPP TS 25.106 3GPP TS 36.106
Intermodulation			
EVM			
Absolute Maximum RF input power	dBm	-10	
Input VSWR		≤ 2.8	
Impedance	Ω	50	
Mechanical			
Dimensions, W x H x D	mm	316 x 224 x 41.5	
Weight (approx.)	kg	1.8	
External Power Supply Unit	Input	VAC	100-240/50-60Hz
	Output	VDC	12
Power Consumption	W	30	
Enclosure Cooling		Convection	
Connectors		SMA-Female	
Operating Temperature	°C	-10 to +40	
Operating Humidity		≤ 85%	
Environmental Class		IP30	
MTBF	hr	≥ 50,000	
Remote Monitoring (option)		Built in WCDMA Modem	

Note: Typical specification at room temperature;

*: GSM Max. Bandwidth 25MHz, WCDMA Max. Bandwidth 15MHz, LTE Max. Bandwidth 20MHz.