

# Tri-band Digital Pico Repeater

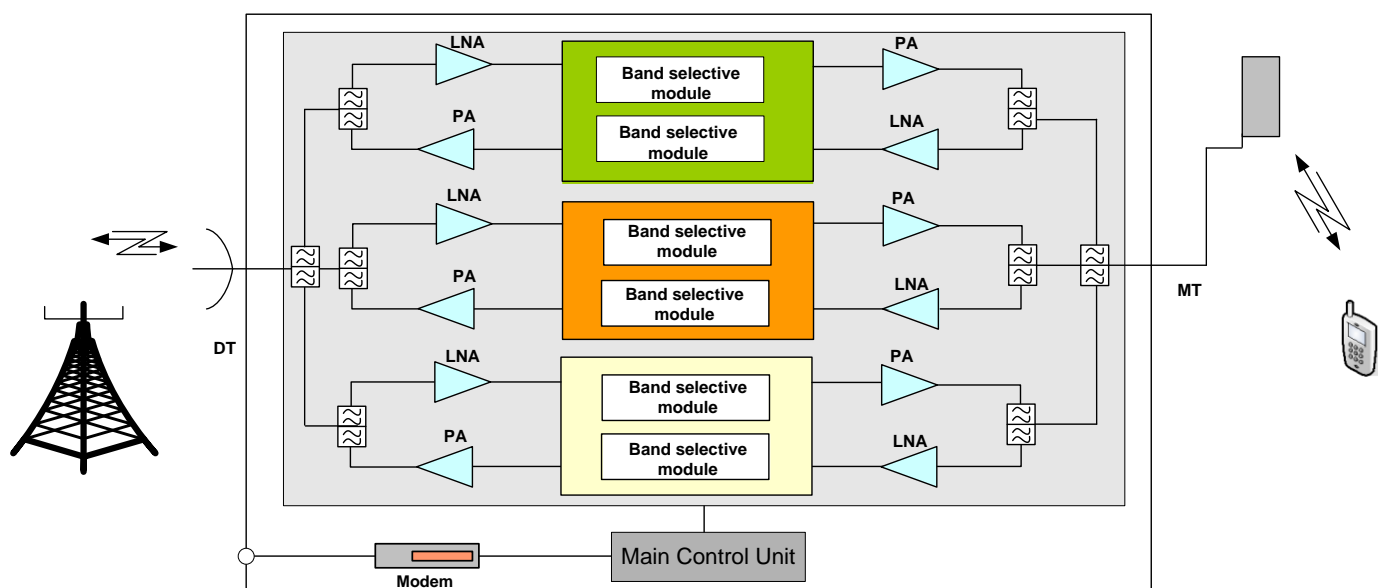
## MP-5232

### Features

- Bandwidth adjustable for both downlink and uplink.
- Max. 2 pass band segments with independent ON/OFF for maximum flexibility.
- 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			900MHz	1800MHz	2100MHz
Operating Frequency, Uplink		MHz	880-915	1710-1785	1920-1980
Operation Frequency, Downlink		MHz	925-960	1805-1880	2110-2170
Instantaneous Bandwidth		MHz	35	50	50
Operating Bandwidth Per Sub-band*		MHz	0.2-25	0.2-25	3-20
Number of Sub-bands			2		
Total Output Power, Uplink		dBm	14	14	14
Total Output Power, Downlink		dBm	17	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	≤ 5	≤ 5	≤ 5
System Group Delay		μsec	≤ 6.5		
Spurious Emission Mask			Compliance with 3GPP TS 25.106 3GPP TS 36.106	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	2		
External Power Supply Unit	Input	VAC	100-240/50-60Hz		
	Output	VDC	12		
Power Consumption		W	44		
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-14dBm

Electrical			900MHz	1800MHz	2100MHz
Operating Frequency, Uplink		MHz	880-915	1710-1785	1920-1980
Operation Frequency, Downlink		MHz	925-960	1805-1880	2110-2170
Instantaneous Bandwidth		MHz	35	50	50
Operating Bandwidth Per Sub-band*		MHz	0.2-25	0.2-25	3-20
Number of Sub-bands			2		
Total Output Power, Uplink		dBm	14	14	14
Total Output Power, Downlink		dBm	14	14	14
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	≤ 5	≤ 5	≤ 5
System Group Delay		μsec	≤ 6.5		
Spurious Emission Mask			Compliance with 3GPP TS 25.106 3GPP TS 36.106	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	2		
External Power Supply Unit	Input	VAC	100-240/50-60Hz		
	Output	VDC	12		
Power Consumption		W	44		
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.