

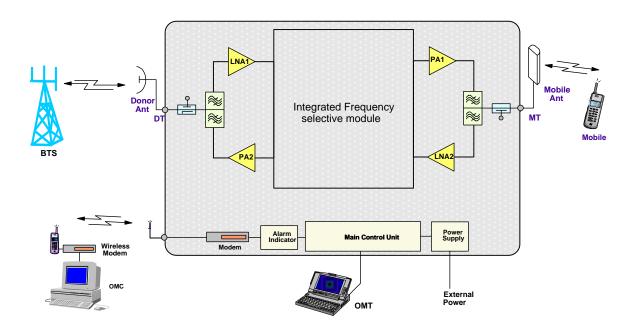
800MHz Digital Pico Repeater

MP-0832

Features

- Bandwidth adjustable for both downlink and uplink.
- Support Cellular Communication and NB-IoT (Stand Alone, Guard Band and In-band).
- Max. 2 pass band segments with independent ON/OFF for maximum flexibility.
- Max. 20dBm total output power.
- 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.

Block Diagram







Specifications

Electrical			20dBm
Operating Frequency, Uplink		MHz	832-862
Operation Frequency, Downlink		MHz	791-821
Operating Bandwidth Per Sub-band		MHz	5 / 10 / 15 / 20 adjustable
Number of Sub-bands			2
Total Output Power, Uplink		dBm	17
Total Output Power, Downlink		dBm	20
Maximum System Gain		dB	75
Attenuation Adjustment Range (1dB step)		dB	0-30
ALC Range		dB	≥ 15
Pass Band Ripple at FBW, p-p		dB	≤ 4
Uplink Noise Figure		dB	≤7
System Group Delay		μsec	≤ 6
Spurious Emission Mask			
Intermodulation			Compliance with 3GPP TS 36.106
EVM			
Absolute Maximum RF input power		dBm	-10
Input VSWR			≤ 2.0
Impedance		Ω	50
Mechanical			
Dimensions, W x H x D		mm	198 x 78 x 43
Weight (approx.)		kg	0.5
External Power Supply Unit	Input	VAC	100-240/50-60Hz
	Output	VDC	12
Power Consumption		W	14
Enclosure Cooling			Convection
Connectors			SMA-Female (SMA-Male to N-Female jumper included)
Operating Temperature		°C	-10 to +40
Operating Humidity			≤ 85%
Environmental Class			IP30
MTBF		hr	≥ 50,000
Remote Monitoring (option)			Built in Wireless Modem

Note: Typical specification at room temperature



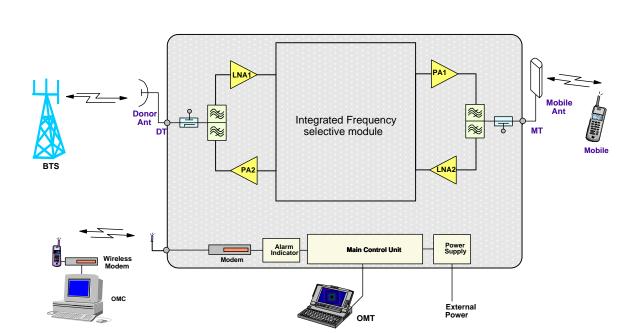
1800MHz Digital Pico Repeater

MP-1832

Features

- Bandwidth adjustable for both downlink and uplink.
- Support Cellular Communication and NB-IoT (Stand Alone, Guard Band and In-band).
- Max. 2 pass band segments with independent ON/OFF for maximum flexibility.
- Max. 20dBm total output power.
- 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

Electrical			20dBm
Operating Frequency, Uplink		MHz	1710-1785
Operation Frequency, Downlink		MHz	1805-1880
Instantaneous Bandwidth		MHz	50
Operating Bandwidth Per Sub-band*		MHz	0.2-25
Number of Sub-bands			2
Total Output Power, Uplink		dBm	17
Total Output Power, Downlink		dBm	20
Maximum System Gain		dB	75
Attenuation Adjustment Range (1dB step)		dB	0-30
ALC Range		dB	≥ 15
Pass Band Ripple at FBW, p-p		dB	≤ 4
System Group Delay		μsec	≤ 6
Spurious Emission Mask			
Intermodulation			Compliance with 3GPP TS 36.106
EVM			
Absolute Maximum RF input power		dBm	-10
Input VSWR			≤ 2.0
Impedance		Ω	50
Mechanical			
Dimensions, W x H x D		mm	198 x 78 x 43
Weight (approx.)		kg	0.5
External Power Supply Unit	Input	VAC	100-240/50-60Hz
	Output	VDC	12
Power Consumption		W	14
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 Wireless Modem

Note: Typical specification at room temperature *: GSM Max. Bandwidth 25MHz, LTE Max. Bandwidth 20MHz



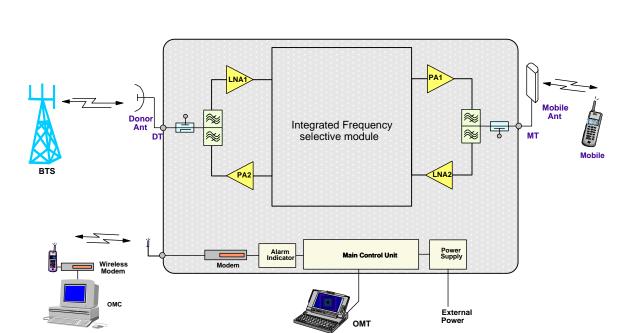
2100MHz Digital Pico Repeater

MP-2132

Features

- Bandwidth adjustable for both downlink and uplink.
- Support Cellular Communication and NB-IoT (In-band)
- Max. 2 pass band segments with independent ON/OFF for maximum flexibility.
- Max. 20dBm 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

Electrical			20dBm
Operating Frequency, Uplink		MHz	1920-1980
Operation Frequency, Downlink		MHz	2110-2170
Instantaneous Bandwidth		MHz	50
Operating Bandwidth Per Sub-band		MHz	3-20
Number of Sub-bands			2
Total Output Power, Uplink		dBm	17
Total Output Power, Downlink		dBm	20
Maximum System Gain		dB	75
Attenuation Adjustment Range (1dB step)		dB	0-30
ALC Range		dB	≥ 15
Pass Band Ripple at FBW, p-p		dB	≤ 4
System Group Delay		μsec	≤ 6
Spurious Emission Mask			O
Intermodulation			Compliance with 3GPP TS 25.106 Compliance with 3GPP TS 36.106
EVM			Compilation with 3011 TO 30.100
Absolute Maximum RF input power		dBm	-10
Input VSWR			≤ 2.0
Impedance		Ω	50
Mechanical			
Dimensions, W x H x D		mm	198 x 78 x 43
Weight (approx.)		kg	0.5
External Power Supply Unit	Input	VAC	100-240/50-60Hz
	Output	VDC	12
Power Consumption		W	14
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 Wireless Modem

Note: Typical specification at room temperature