

800MHz Digital Repeater

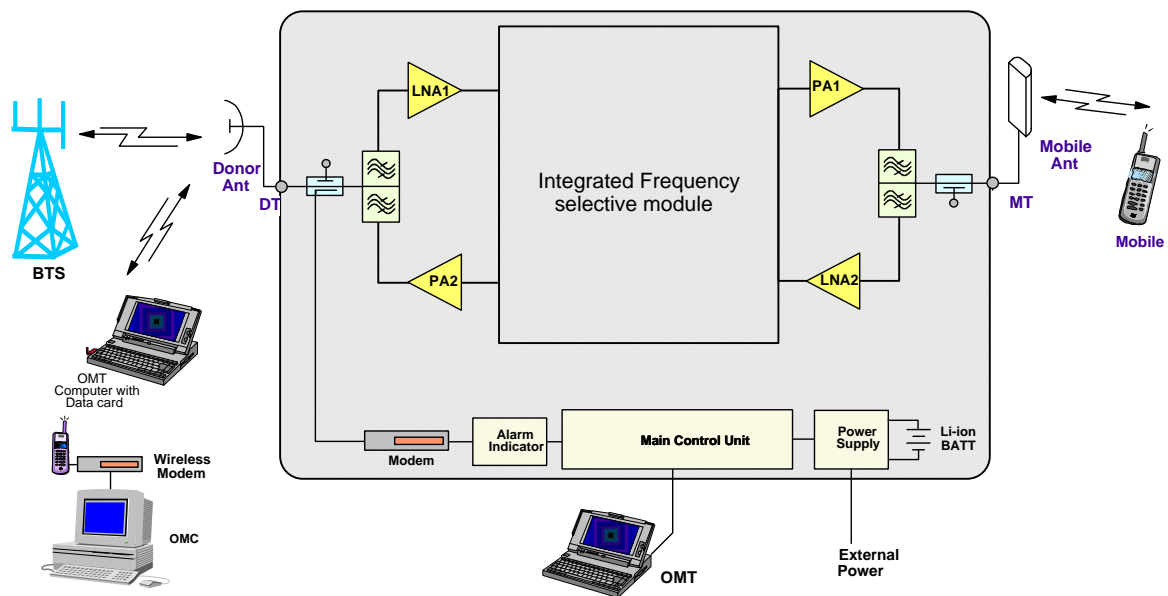
RX-0823

Features

- Support 5/10/15/20MHz different bandwidth LTE carrier
- Power Output software adjustable, up to 20W Downlink Power Output.
- Automatic Digital gain control and Antenna Feedback Cancellation (AFC) feature that can reduce the isolation requirement up to 30dB.
- Integrated WCDMA wireless modem for remote configuration, monitoring and control.
- Offline isolation detection for easy commissioning.
- Compatible to Comba generic OMT and CMS platform.
- Designed for all weather outdoor installation – waterproof, damp-proof and omni-sealed (IP65).



Functional Block Diagram



Specifications

Electrical		5W	10W	20W
Frequency Range, Uplink	MHz	832-862		
Frequency Range, Downlink	MHz	791-821		
Operating Bandwidth	MHz	5/10/15/20（5MHz Step）		
Total Output Power, Uplink	dBm	23		
Total Output Power, Downlink	dBm	37	40	43
Maximum System Gain	dB	100		
Gain Adjustment Range (1dB step)	dB	0-30		
Antenna Feedback Cancellation	dB	30		
Uplink Noise Figure	dB	≤ 5		
System Group Delay	μsec	≤ 6.5		
Spectrum Emission Mask		Compliance with 3GPP TS 36.106		
ACRR				
EVM				
PCDE				
Intermodulation				
Absolute Maximum RF Input Power	dBm	-10		
Input VSWR		≤ 1.5		
Impedance	Ω	50		
Mechanical				
Dimensions, H x W x D	mm	430 x 300 x 164		
Weight (approx.)	kg	18		
Power Supply	VAC	100-240/47-63Hz		
Power Consumption (approx.)	W	130	140	150
Power Up Waiting Time (approx.)	sec	180		
MCU Battery Backup Time (approx.)	hr	2		
Enclosure Cooling		Convection		
RF Connectors		N-Female		
Operating Temperature	°C	-33 to +55		
Operating Humidity		≤ 95%		
Environmental Class		IP65		
MTBF	hr	≥ 50,000		

Note: Typical specification at room temperature