

# 1800MHz Digital Channel Selective Repeater

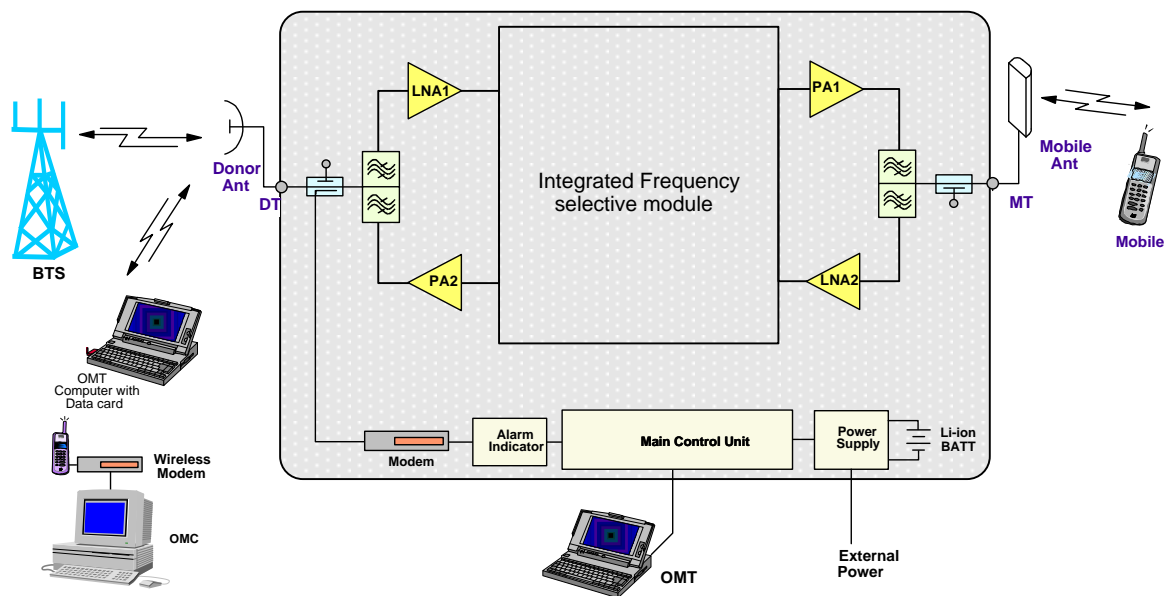
RX-1823 III3

## Features

- Support 5/10/15/20MHz different bandwidth WCDMA /LTE carrier.
- Utilizing the latest Pre-distortion MCPA technologies, up to 20W Downlink Power Output.
- Automatic Digital gain control and Antenna Feedback Cancellation (AFC) feature that can reduce the isolation requirement.
- Integrated WCDMA/LTE wireless modem for remote configuration, monitoring and control.
- Real time 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		
Frequency Range, Uplink	MHz	1710-1785
Frequency Range, Downlink	MHz	1805-1880
Operating Bandwidth	MHz	5/10/15/20
Number of Sub-bands		2
Instantaneous bandwidth	MHz	40
Total Output Power, Uplink	dBm	27
Total Output Power, Downlink	dBm	43
Maximum System Gain	dB	95
Gain Adjustment Range (1dB step)	dB	0-30
Antenna Feedback Cancellation	dB	Gain - 5
Uplink Noise Figure	dB	≤ 5
System Group Delay	μsec	≤ 10
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	500 x 356 x 140
Weight (approx.)	kg	18
Power Supply	VAC	100-240/47-63Hz
Power Consumption (approx.)	W	130
MCU Battery Backup Time (approx.)	hr	2
Enclosure Cooling		Convection
RF Connectors		N-Female or 4.3-10 by adaptor
Operating Temperature	°C	-33 to +55
Operating Humidity		≤ 95%
Environmental Class		IP65
MTBF	hr	≥ 100,000

Note: Typical specification at room temperature