

MB-2200

WCDMA Band Selective Repeater

LTE Solution for High Density In-Building Traffic

Coiler developed the MB-2200 Band Selective Repeater to solve WCDMA coverage problems in areas with high density traffic. Its unique features and compact, lightweight design allow optimum utilization of the unit in a variety of medium and larger sized areas such as large offices and conference facilities where it can greatly improve the quality of service and customer experience.

The MB-2200 boosts indoor signal levels that enable high data transmission rates to allow operators to exploit the full capabilities of WCDMA services. Powerful, versatile and designed for network safety, the MB-2200 is the ideal solution for operators looking to extend the in-building coverage of their WCDMA network.

	900	1800	2100
Soho	AT-900 13dBm 55dB/65dB	AT-1800 13dBm 55dB/65dB	AT-2200 13dBm/7dBm 65dB PS-2200 13dBm/10dBm 70dB
Pico	VB-900 18dBm 70dB	VB-1800 18dBm 70dB	VB-2200 18dBm 70dB
Mini	BR-900 20dBm 80dB MB-900 19/23dBm 80dB	BR-1800 20dBm 80dB MB-1800 20/23dBm 80dB	BR-2200 20dBm 80dB MB-2200 23dBm 80dB
Micro	CR-900 30dBm/33dBm 90dB		CR-2200 23dBm/37dBm 90dB
Macro			AX-2200 23dBm/43dBm 100dB

*Some of the above products are also available in dual band.

High Gain and Output Power

Exceptionally high gain of 80dB and minimum output power of +23dBm make the MB ideal for medium and large sized areas. Greatly improved RSSI and Ec/Io parameters enable boost in data throughput and improved customer experience. Enables full utilization of WCDMA data capabilities.



Integrated Control Panel

Displays Donor Level Signal Strength Indication (RSSI) and ability to check isolation. Provides instant access to all adjustable parameters with no laptop required.

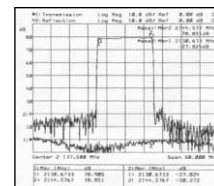
Key Features and Benefits

Complete Network Safety

Functions such as Auto Shutdown (ASD) and Auto Turn-on (ATO) ensure that the repeater is optimally positioned and safe guarded at all times. Automatic Gain Control (AGC) function protects the network from oscillation and interference. Ensures that spikes in output power will not damage the system or interfere with base stations.

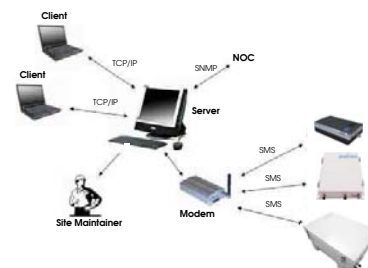
Customizable Bandwidth

Boosts RF signal within the 10, 15, or 20 MHz frequency range with channel shifting option. High SAW filter selectivity provides sharp out of band rejection to ensure that only the operator's frequency is amplified.



Optional Remote Management

Via Coiler's Operation and Maintenance Center (OMC). Management functions enable remote control and monitoring of the repeater's parameters including gain, power status, and AGC functionality via an integrated Remote Control Unit (RCU). Coiler also offers RCUs with both 2G and 3G modems.



QW-05044: MB-2200 ver F2



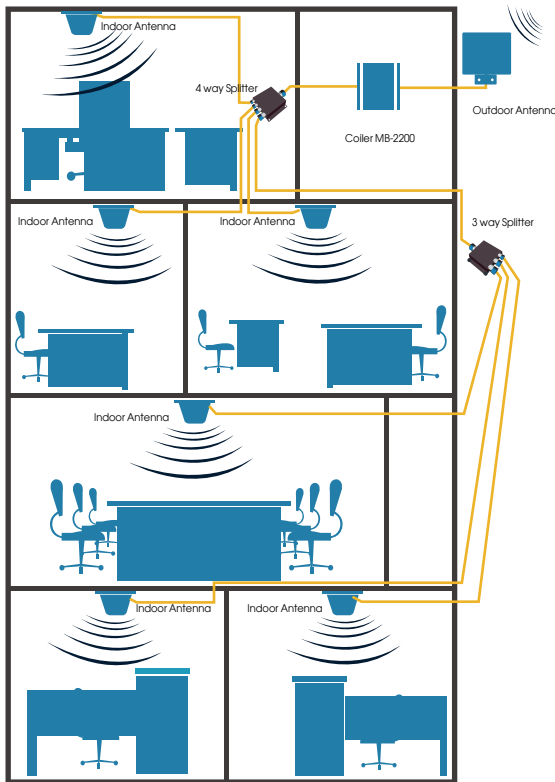
Coiler Corporation offers an extensive portfolio of indoor and outdoor repeaters for RF signal enhancement. Our products allow mobile network carriers, system integrators and cell phones users to quickly and cost-effectively address coverage considerations and improve reception in iDEN, CDMA, GSM, DCS, PCS, UMTS, WiMAX and LTE networks. Some global operators such as Vodafone, Orange, T-Mobile, Telefonica o2, Telenor, Tele2, Singtel, KPN and others have trusted our experience and expertise.



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Sample Installation



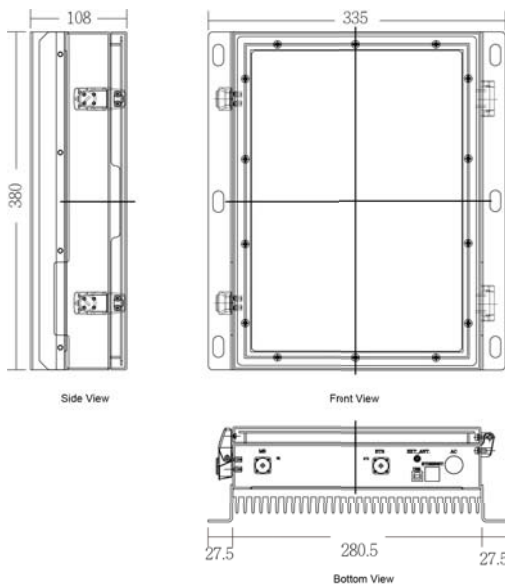
Specifications

Electrical:

Frequency Range	Uplink: 1920 ~ 1980MHz Downlink: 2110 ~ 2170MHz
Frequency Adjustable Step	0.1MHz
Bandwidth	10 / 15 / 20 MHz
Output Power (UL/DL)	≥+23dBm
Linear Gain	80dB
Gain Adjustment (UL/DL)	30dB (in 1dB steps)
AGC Range	30dB
AGS Range	30dB
Gain Flatness	± 2dB
EVM	≤ 12.5% RMS
Return Loss	≤ -14dB
Group Delay	≤ 4.2μs
Noise Figure @ Full Gain	≤ 6dB
Noise Figure @ Min Gain	≤ 10dB
Out of Band Gain	3GPP TS 36.106 & 143
Spurious Emission	3GPP 36.106 & 143
Frequency Stability	≤ 0.01ppm
ACRR (UL/DL)	≥20dB
Power Consumption	45W (7.5V/6A)
System Impedance	50Ω
Remote Management	Yes (optional)
Power Requirements	100 ~ 240V AC / 50 ~ 60Hz

Dimensions

(All Measurements in Millimeters)



Mechanical & Environmental:

Weight	10.2 kg
Dimensions	380 x 335 x 108mm
Operating Temperature	-10°C ~ +50°C
RF Connector Type	N Type Female (1 x BTS / 1 x MS)
Local Alarm Indication	LED: AID/AGC, PA, Sync

QW-05044; MB-2200 ver F2 (June 10, 2014 - Standard) - All data subject to change without prior notice