

# AT-2200



# UMTS Band Selective Repeater

## Your Choice for Residential 3G Coverage

The AT-2200 Band Selective Repeater is Coiler's unique offering for rapid mobile coverage extension on UMTS networks. The Atom has been designed especially to help carriers solve the coverage problems and enable high data transmission rates in a variety of smaller indoor environments such as homes and offices.

The Atom combines an integrated service antenna as well as an additional antenna extension port to enable a convenient and flexible system extension and a plug and-play like installation. The unit can be deployed even by the most non-technical user, making it perfect for operators seeking a smart, yet economic solution to satisfy growing demands for indoor coverage and fast data transmission from their customers while, at the same time, increasing their own revenues.

	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 20/23dBm 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

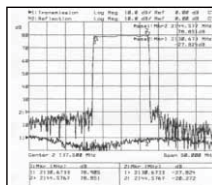
\*Some of the above products are also available in dual band.

### Instant System Extension

Combines a gain of 65dB with UL/DL output power of +13dBm/+7dBm to effectively cover a variety of small indoor areas.

### Customizable Bandwidth

Boosts RF signal within either 10MHz, 15MHz, or 20MHz ranges and ensures that only the operator's frequency is amplified. High SAW filter selectivity provides sharp out of band gain rejection.



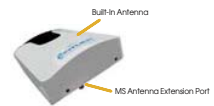
## Key Features and Benefits

### Complete Network Safety

Functions such as Auto Isolation Detection (AID), 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.

### Built-In Antenna and Antenna Extension Port

Provides an embedded service antenna as well as an additional service antenna port to enable an easy and flexible system extension.

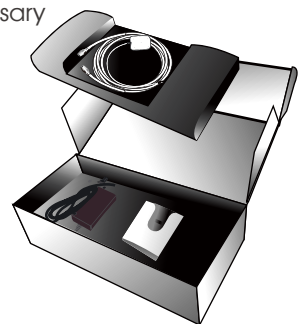


### Integrated Keypad and Digital Display

For easy DIY installation, the Atom displays Donor Level Signal Indication (RSSI) as well as alarm indications for Auto Gain Control (AGC), insufficient isolation, and PA for overpower. For user convenience, manual gain attenuation can be done for a flexible adoption to various mobile environments.

### Complete "Ready to Install" Package

Comes with everything necessary for a simple, plug-and-play installation. Combines an embedded service antenna with a stylish and compact design that will compliment the decor of any home or office.



QW-05001: AT-2200 ver F2



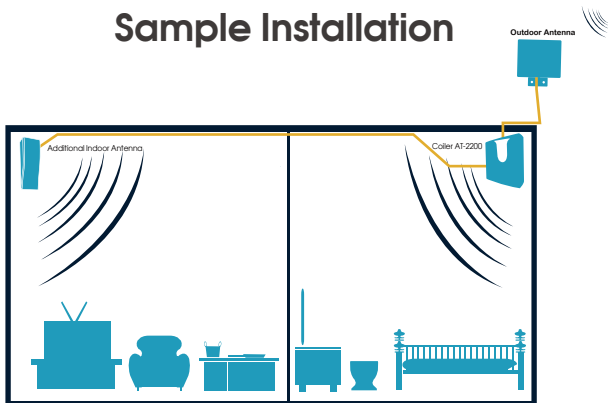
Coiler Corporation offers an extensive portfolio of indoor and outdoor repeaters for RF signal enhancement. Our products allow mobile network carriers, system integrators and cell phones users to quickly and cost-effectively address coverage considerations and improve reception in iDEN, CDMA, GSM, DCS, 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

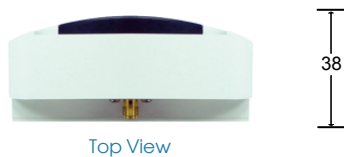


## Electrical Specifications:

Frequency Range	Uplink: 1920 ~ 1980MHz Downlink: 2110 ~ 2170MHz
Bandwidth	10 or 15 or 20MHz
Linear Gain (UL/DL)	65dB
Out of Band Gain	3GPP TS 25.106
Gain Adjustment (UL/DL)	45 ~ 65dB (in 1dB steps)
AGC Range	≥ 25dB
Gain Flatness	≤ ± 1.5dB
Output Power (UL/DL)	+13dBm/+7dBm
Max. I/P Without Damage	≥ +10dBm
EVM	≤ 10%
Spurious Emission	3GPP TS 25.106
Return Loss	≤ -14dB
Group Delay	≤ 6μs
Noise Figure @ Full Gain	≤ 6dB
Power Consumption	< 10W
System Impedance	50Ω
PCDE	3GPP TS 25.106
ACRR	3GPP TS 25.106
Port Tx/Rx Isolation	>90dBc
Power Requirements	100 ~ 240VAC / 47 ~ 63Hz

## Dimensions

(All Measurements in Millimeters)



Top View



Front View

## Mechanical & Environmental:

Weight	Approx. 0.7 kg
Dimensions	90 x 140 x 38mm
Operating Temperature	0°C ~ +50°C
RF Connector Type	SMA Female

## Certifications & Compliances:

CE	Radio:	EN 301 908 3GPP TS 25.106
	EMC:	EN 301 489
	Safety:	EN 60950-1
RoHS		2002/95/EC Compliant
WEEE		2002/96/EC Compliant

QW-05001; AT-2200 ver F2 (June 11, 2014 - Standard) - All data subject to change without prior notice