



## Your Choice for Residential GSM/WCDMA 900 Coverage. Signal AT hOME.

The AT-900 Band Selective Repeater is Coiler's unique offering for rapid mobile coverage extension on GSM and WCDMA 900 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 additional antenna extension port to enable 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 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.

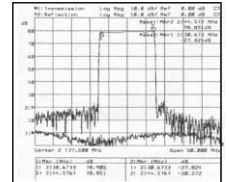
## Key Features and Benefits

### Instant System Extension

Combines a gain of 65dB and output power of +13dBm for WCDMA system and 10dBm for GSM system to effectively cover a variety of smaller indoor areas.

### Customizable Bandwidth

Frequency can be customized to any particular operator's frequency. High SAW filter selectivity provides sharp out of band gain rejection.

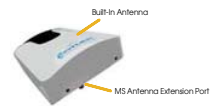


### Complete Network Safety

Functions such as Auto Isolation Detection (AID), Auto Shutdown (ASD) and Auto Turn-on (ATO) ensure that the repeater is optimally positioned and safeguarded at all times. Automatic Gain Control (AGC) function protects the network from oscillation and interference. It also 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 additional service antenna port to enable easy and flexible system extension.

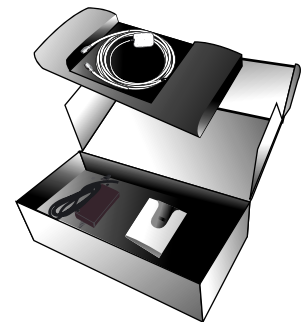


### Integrated Keypad and Digital Display

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 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.



	900	1800	2100
<b>Soho</b>	<b>AT-900</b> 10dBm (G) 13dBm (W) 65dB	<b>AT-900</b> 13dBm 55/65dB	<b>AT-2200</b> 13dBm/7dBm 65dB <b>PS-2200</b> 13dBm/10dBm 70dB
<b>Pico</b>	<b>VB-900</b> 18dBm 70dB	<b>VB-1800</b> 18dBm 70dB	<b>VB-2200</b> 18dBm 70dB
<b>Mini</b>	<b>BR-900</b> 20dBm 80dB	<b>BR-1800</b> 20dBm 80dB	<b>BR-2200</b> 20dBm 80dB
<b>Micro</b>	<b>CR-900</b> 30dBm/33dBm 90dB		<b>CR-2200</b> 23dBm/37dBm 92dB
<b>Macro</b>	<b>AX-900</b> 29dBm/30dBm 95dB		<b>AX-2200</b> 23dBm/43dBm 100dB

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

Coiler AT Band Selective Repeater Series

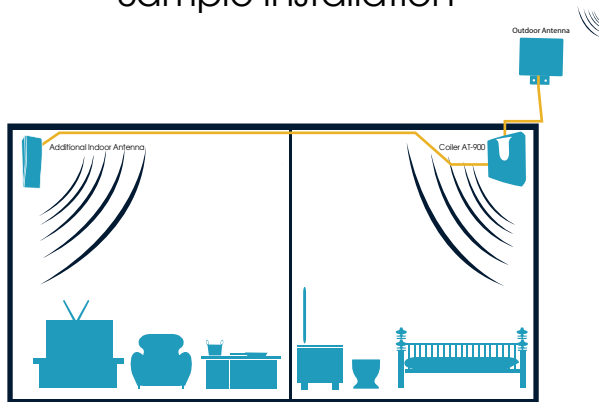
QW-05038; AT-900 ver A3



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.



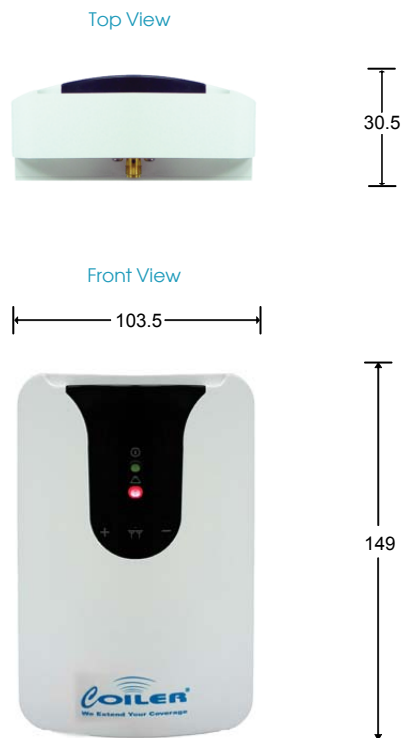
## Sample Installation



## Electrical Specifications:

Frequency Range	Uplink: 880 ~ 915MHz Downlink: 925 ~ 960MHz
Bandwidth	1.2 ~ 24.8MHz (Customized)
Linear Gain (UL/DL)	65dB
Out of Band Gain	3GPP TS 25.106 & 143
Gain Adjustment (UL/DL)	45 ~ 65dB
AGC Range	≥ 20dB
Gain Flatness	≤ ± 1.5dB
GSM O/P (UL/DL)	+10dBm
WCDMA O/P (UL/DL)	+13dBm
Max. I/P Without Damage	≥ +10dBm
EVM	≤ 12.5% RMS (WCDMA)
Spurious Emission	3GPP TS 25.106 & 143
Return Loss	≤ -14dB
Group Delay	≤ 5μs
Noise Figure @ Full Gain	≤ 6dB
@ Min Gain	≤ 6dB
Power Consumption	≤ 10W
System Impedance	50Ω
PCDE	≤ -35dB
Frequency Stability	≤ 0.01ppm
Power Requirements	100 ~ 240VAC / 47 ~ 63Hz

## Dimensions



(All Measurements in Millimeters)

## Mechanical & Environmental:

Weight	< 1.5 kg
Dimensions	103.5 x 149 x 30.5 mm
Operating Temperature	+0°C ~ +50°C
RF Connector Type	SMA Female (1 x BTS, 1 x MS)
Local Alarm Indication	LED: AID/AGC, Donor Low Signal

## Certifications & Compliances:

CE	Radio:	3GPP TS 25.106 & 143
	EMC:	EN 301 489
	Safety:	EN 60950-1
RoHS		2011/65/EU Compliant
WEEE		2012/19/EU Compliant