



Your Choice for Residential LTE/WCDMA 900 Coverage. Signal AT home.

The Atom AT-900 Band Selective Repeater is Coiler's unique offering for rapid mobile coverage extension on GSM, WCDMA, and LTE 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.

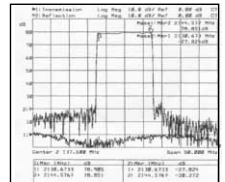
Key Features and Benefits

Instant System Extension

Combines a gain of 55dB for GSM (2G) and 65dB for WCDMA (3G) and LTE (4G). UL/DL output power of +13dBm for all technologies to effectively cover a variety of smaller indoor areas.

Adjustable Bandwidth

Frequency can be either 10, 15, 20, or 25MHz in bandwidth and adjust at 0.1MHz increment. 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 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 additional service antenna port to enable easy and flexible system extension.

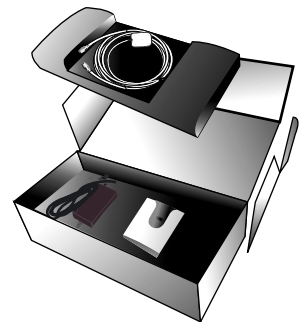


Integrated Keypad and Digital Display

To enable easy DIY installation, displays Donor Level Signal Indication (RSSI) and low signal alarm indication. For user convenience, also provides access to manual gain attenuation which enables 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
Soho	AT-900 13dBm 60dB/65dB		AT-2200 13dBm 65dB
Pico	VB-900 18dBm 70dB	VB-1800 17dBm 70dB	VB-2200 18dBm 70dB
Mini	BR-900 20dBm 80dB	BR-1800 20dBm 80dB	BR-2200 20dBm 80dB
Micro	CR-900 30dBm/33dBm 90dB		CR-2200 23dBm/40dBm 90dB
Macro	AX-900 29dBm/30dBm 95dB		AX-2200 23dBm/43dBm 100dB

*The above products are also available in dual band models
* Coiler also offers an extensive portfolio of band selective repeaters

Coiler AT Band Selective Repeater Series

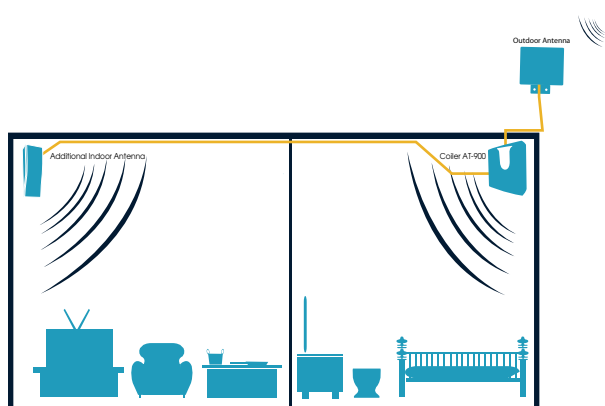
QW-05035: AT-900 ver B1



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



Specifications

Electrical:

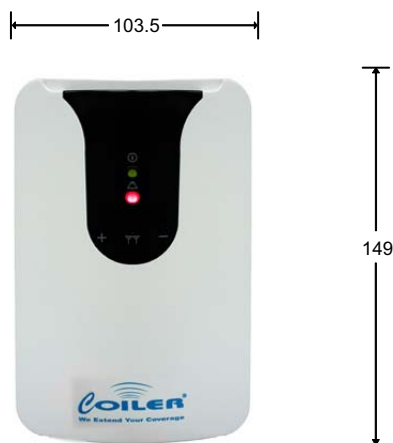
Frequency Range	Uplink: 890 ~ 915MHz Downlink: 935 ~ 960MHz
Frequency Adjustable Step	0.1MHz
Bandwidth	10 / 15 / 20 / 25 MHz Selectable
Linear Gain (UL/DL)	55dB (2G) 65dB (3G/4G)
Out of Band Gain	3GPP TS 25.106 & 143
Gain Adjustment (UL/DL)	40 ~ 60dB (2G in 1dB steps) 45 ~ 65dB (3G/4G)
AGC Range	≥ 20dB
Gain Flatness	≤ ± 2dB
Output Power (UL/DL)	+13dBm
Max. I/P Without Damage	≥ +10dBm
EVM	≤ 12.5% RMS (WCDMA) ≤ 8% RMS (LTE)
Spurious Emission	3GPP TS 25.106 & 143
Operating Band Unwanted Emission (LTE)	3GPP TS 36.106
Return Loss	≤ -14dB
Group Delay	≤ 3.3μs
Noise Figure @ Full Gain	≤ 6dB
@ Min Gain	≤ 6dB
Power Consumption	≤ 10W
System Impedance	50Ω
PCDE	≤ -35dB
Frequency Stability	≤ 0.01ppm
ACRR	≥ 20dB / ≥ 20dB
Power Requirements	100 ~ 240VAC / 47 ~ 63Hz

Dimensions

Top View



Front View



(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 and Compliance

CE	Radio:	3GPP TS 25.106 & 143 3GPP TS 36.106
	EMC:	EN 301 489
	Safety:	EN 60950-1
RoHS		2002/95/EC Compliant
WEEE		2002/96/EC Compliant

QW-05035; AT-900 ver B1 (October 15, 2012 - Standard) - All data subject to change without prior notice