



RG230

WiMAX 802.16e Indoor IAD

The Self-Installable Indoor IAD Offering Data, Voice and WiFi Transmission for WiMAX Service Deployment

The AWB RG230 is a WiMAX Indoor IAD equipped with Ethernet, VoIP and WiFi connections into one single device. The device is self-installable for end users to install the device in the building easily. AWB RG230 delivers the last mile broadband wireless access (BWA) for service provider using fixed or mobile applications. It performs as an alternative to wired DSL or cable modems with higher and wider transmitting speed and coverage.

Key Features

- IEEE 802.16e-2005 Wave 2 compliant
- MRC (Maximum Ratio Combining) technology utilizes dual receive antennas to enhance receiving signal quality
- MIMO (Multiple input, Multiple output) technology improves transmission speed and coverage
- Supports TR069 remote management for easy configuration remotely
- Optional SIP-based VoIP function provides low cost internet calls
- Optional IEEE 802.11b/g function allows users using existing WiFi devices for the ultimate mobility and convenience
- Supports Network Discovery and Selection (ND&S) algorithm for automatically and effectively connecting to base station
- Supports multiple frequency bands for global coverage

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Physical Interfaces

LAN	1 or 4 10/100Base-T ports
VoIP	2 SIP FXS ports (optional)
WiFi	802.11b/g (Optional only for 3.5GHz model)

WiMAX Features

Standard Compliant	IEEE 802.16e-2005
Air Interface	Scalable OFDMA
Duplex Mode	TDD/5ms frame
Frequency Band	2.3-2.4GHz; 2.5-2.7GHz; 3.4-3.6GHz
Channel Bandwidth	5, 7, 8.75, 10MHz
Modulation	QPSK, 16QAM, 64QAM
MIMO	Matrix A (STC) & Matrix B
Beamforming	IO Beamforming
Transmitting Power	26+/-1dBm@16QAM, 3/4CTC
Receiving Sensitivity	-94dBm @ QPSK, ½ CTC
ND&S	Support
Antenna Type	External Omni antenna with MRC
Antenna Gain	4dBi
Encryption	128 bit AES/CCM
Authentication	EAP-TLS (with optional X.509) EAP-TTLS-MSCHAPv2
QoS Mechanism	UGS, RT-VR, NRT-VR, ERT-VR, BE
Hand Over	Hard HO / Optimized Hard HO
CS Support	Ether-CS and IP-CS support

VoIP Features (Optional)

Standard Compliant	SIP RFC3261 compliant
Voice Codec	G.711a/u, G.729a/b, G.726, G.723
Voice Quality	VAD (Voice Activity Detection), CNG (Comfort Noise Generation), Echo Cancellation G.165/G.168, Jitter Buffer, DTMF Detection and Generation, Configurable Cadence Rings
Call Features	Call Waiting, Call Transfer, Call Forward, Fax(T.38), 3-Way Conference Call, STUN(RFC3489), Outbound Proxy Support

WiFi Features (Optional only for 3.5GHz Model)

Standard Compliant	IEEE 802.11b/g
WiFi Security	WPA/WPA2, WEP64/128
Antenna Type	Internal 2dBi

Networking Features

Management / Remote Configuration	Web-Based configuration, SNMPv2, TR-069
Firewall	NAT and NAPT, DoS attack protection, SPI (Stateful Packet Inspection), DMZ Control
WAN Connection	Static IP, PPPoE, Dynamic IP, Multiple IPs
DNS	DNS Relay, DNS Client
Bridge Mode	Transparent DHCP
Bridging	802.1D Self Learning Bridge

Mechanical Features

Dimensions (H x W x D)	170x184x80mm
Weight	610g
Power Consumption	<13W
Operating Temperature	0° ~ 40°C
Humidity	5% ~ 95% non-condensing

Standards & Regulatory

Radio Compliance	FCC Part 27 Subpart M FCC Part 90 Subpart Z EN302 326-1/-2/-3 FCC part 15C for Wi-Fi EN 300 328 for Wi-Fi
EMC Compliance	FCC part 15B Class B CE EN55022 Class B EN301489-1/4
Safety Compliance	EN 60950-1
Environmental Compliance	EN300 019

Remarks:

- * Represents future release
- AWB reserves the right to make changes to product specifications without notices.

Product Configurations

Model Name	Data	Voice	WiFi	Frequency
RG230-2.3/2.5/3.5-1D	1 10/100Base-T	-	-	2.3-2.4GHz; 2.5-2.7GHz; 3.4-3.6GHz
RG230-2.3/2.5/3.5-1D2V	1 10/100Base-T	2 FXS	-	2.3-2.4GHz; 2.5-2.7GHz; 3.4-3.6GHz
RG230-2.3/2.5/3.5-4D	4 10/100Base-T	-	-	2.3-2.4GHz; 2.5-2.7GHz; 3.4-3.6GHz
RG230-2.3/2.5/3.5-4D2V	4 10/100Base-T	2 FXS	-	2.3-2.4GHz; 2.5-2.7GHz; 3.4-3.6GHz
RG230-3.5-4D2V1W	4 10/100Base-T	2 FXS	802.11b/g	3.4-3.6GHz

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