

WiMAX 802.16e Indoor CPE

*Your Fast Way to Deploy WiMAX Service
The best gateway between WiMAX and LAN*

- IEEE 802.16e-2005 Mobile WiMAX
- Zero-Install, Plug-and-Play
- Detachable Omni-Antenna with Good Coverage
- MRC Support for Receiving Sensitivity
- Full Non-Line of Sight (NLOS) Deployment
- 2.3/2.5/3.5GHz Frequency Band Supported



LC100

The AWB LC100 is a WiMAX indoor gateway. It implements Ethernet technology and provide internet connectivity through WiMAX. Compliant with IEEE 802.16e WiMAX standard, the AWB LC100 delivers the last mile broadband wireless access (BWA) for service provider in 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

- A cost-effective replacement or substitute of DSL modem or cable modem
- Self installable & self configurable
- High throughput over WiMAX
- Full Non-Line of Sight (NLOS) deployment
- Detachable Omni-antenna deployment provides good coverage and throughput
- MRC (Maximum Ratio Combining) technology utilizes dual receiver antennas to enhance receiving signal quality
- QoS management
- Gateway functions between LAN and WiMAX
- Security features to protect against malicious hackers from internet
- 2.3/2.5/3.5GHz frequency band supported

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Physical Interface	
WAN	1 IEEE 802.16e-2005 WiMAX
LAN	4 10/100Base-T ports
WiMAX Specification	
Standard Compliant	IEEE 802.16e-2005
Air Interface	Scalable OFDMA
Duplex Mode	TDD/5ms frame
Frequency Band	2.3-2.4 GHz (LC100-2.3) 2.496-2.696GHz (LC100-2.5) 3.3-3.6GHz (LC100-3.5)
Channel Bandwidth	5, 7, 8.75 and 10MHz (Configurable)
Modulation	DL Modulation: QPSK, 16QAM, 64QAM UL Modulation: QPSK, 16QAM
Transmit Power	23dBm @ QAM 16, ¼ CTC
Receiving Sensitivity	-94dBm @ QPSK, ½ CTC
Antenna	1 Tx, 2 Rx with MRC (Maximum Ratio Combining)
Max. Throughput	Downlink Peak Rate: > 6 Mbps Uplink Peak Rate: > 3.5Mbps
Antenna Gain	4 dBi for External Omni-Antenna
Authentication	PKMv2 with 128bit AES/CCM
Security/Encryption	EAP-TLS/TTLS Authentication
QoS Mechanism	Dynamic Service Flow Creation, Change, Deletion Scheduling: UGS, RT-VR, NRT-VR, ERT-VR and BE
HO (Hand-off)	Hard HO / Optimized Hard HO

Networking	
Network Management	Web-based configuration SNMP v1, v2 Telnet CPE WAN Management Protocol (CWMP) - TR069
Firewall	NAT and NAPT DoS attack protection SPI (Stateful Packet Inspection) DMZ control
Routing	Proxy ARP
ARQ	ARQ ACK type 1 – Cumulative ACK ARQ ACK type 2 – Cumulative with selective ACK Entry
VPN Pass through	IPSec PPTP L2TP
Bridging	802.1D Self Learning Bridge
IP Protocol	Packet IPv6 Packet IPv4
Mechanical	
Dimensions (H x W x D)	156 x 128 x 27mm
Power Consumption	< 6.5W
Operating Temperature	0° – 45°C
Radio	FCC Part 27,
EMC	FCC Part 15B Class B CE EN55022 Class B
Safety	CB60950-1
Environmental	ETS 300 019

