

# 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 Installation, Plug-and-Play
- Detachable Omni-Antenna with Good Coverage
- MRC Support for Receiving Sensitivity
- 2.3/2.5/3.5GHz Frequency Band Support



## LC200

The AWB LC200 is a WiMAX indoor gateway. It implements Ethernet technology and provides internet connectivity through WiMAX. Compliant with IEEE 802.16e WiMAX standard, the AWB LC200 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

- IEEE 802.16e-2005 Wave 2 compliant
- 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
- MIMO (Multiple input, Multiple output) technology improves transmission speed and coverage
- MRC (Maximum Ratio Combining) technology utilizes dual receive antennas to enhance receiving signal quality
- 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	
<b>WAN</b>	1 IEEE 802.16e-2005 WiMAX
<b>LAN</b>	4 10/100Base-T ports
WiMAX Specification	
<b>Standard Compliant</b>	IEEE 802.16e-2005
<b>Air Interface</b>	Scalable OFDMA
<b>Duplex Mode</b>	TDD/5ms frame
<b>Frequency Band</b>	2.3-2.4 GHz (LC200-2.3) 2.496-2.696GHz (LC200-2.5) 3.3-3.6GHz (LC200-3.5)
<b>Channel Bandwidth</b>	5, 7, 8.75 and 10MHz (Configurable)
<b>Modulation</b>	DL Modulation: QPSK, 16QAM, 64QAM UL Modulation: QPSK, 16QAM, 64QAM
<b>MIMO</b>	Matrix A (STC) & Matrix B
<b>Transmit Power</b>	23dBm @ QAM 16, ¾ CTC
<b>Receiving Sensitivity</b>	-94dBm @ QPSK, ½ CTC
<b>Max. Throughput</b>	Downlink Peak Rate: > 20 Mbps Uplink Peak Rate: > 7Mbps
<b>Antenna</b>	1 Tx, 2 Rx with MRC (Maximum Ratio Combining)
<b>Antenna Gain</b>	4 dBi typical, detachable Omni-antenna
<b>Authentication</b>	PKMv2 with 128bit AES/CCM
<b>Security/Encryption</b>	EAP-TLS/TTLS Authentication
<b>QoS Mechanism</b>	Dynamic Service Flow Creation, Change, Deletion Scheduling: UGS, RT-VR, NRT-VR, ERT-VR and BE
<b>HO ( Hand-off )</b>	Hard HO / Optimized Hard HO

Networking	
<b>Network Management</b>	Web-based configuration SNMP v1, v2 Telnet CPE WAN Management Protocol (CWMP) - TR069
<b>Firewall</b>	NAT and NAPT DoS attack protection SPI (Stateful Packet Inspection) DMZ control
<b>Routing</b>	Proxy ARP
<b>ARQ</b>	ARQ ACK type 1 – Cumulative ACK ARQ ACK type 2 – Cumulative with selective ACK Entry
<b>VPN Pass through</b>	IPSec PPTP L2TP
<b>Bridging</b>	802.1D Self Learning Bridge
<b>IP Protocol</b>	Packet IPv6 Packet IPv4
Mechanical	
<b>Dimensions (H x W x D)</b>	156 x 128 x 27mm
<b>Power Consumption</b>	< 12 W
<b>Operating Temperature</b>	0° – 45°C
<b>Radio</b>	FCC Part 27,
<b>EMC</b>	FCC Part 15B Class B CE EN55022 Class B
<b>Safety</b>	CB60950-1
<b>Environmental</b>	ETS 300 019

