

ExcelMax Indoor CPE

Point to Multipoint

Key Features

- WiMax-2004 Compliant - NLOS operation
- Enhanced NLOS Features: Uplink Sub-channelization; Space Time Coding
- Self Install, Self Configure Indoor CPE
- Half-Duplex FDD and TDD support
- Supports data, voice and video services
- Comprehensive Quality of Service (CIR, PIR, Priority) and VLAN support

Benefits

- Low cost CPE allows mass residential rollout
- Self Install feature avoids cost of professional installation
- Robust, field proven platform

Applications

- Data applications (High speed Internet access, VPN, VLAN, Video Conferencing)
- VoIP applications (SIP, CAC)



AXXCELERA BROADBAND

Axxcelera Broadband Wireless is a data networking Solutions Company, developing leading-edge technology for the deployment of broadband wireless communications over the Internet. The ExcelMax™ broadband wireless platform bridges the last mile, currently replacing the local loop for corporate and small business subscribers and migrating to the residential market and will be certified WiMax compliant. Axxcelera is a principal member of the WiMax Forum.

EXCELMAX Indoor CPE OVERVIEW

Axxcelera's ExcelMax Indoor CPE is a low cost, self-installable Point to Multipoint (PMP) CPE designed to operate in the 3.3-3.8 GHz spectrum and supports a Half Duplex FDD (Frequency Division Duplex) or a TDD (Time Division Duplex) architecture. The WiMax-2004 compliant Indoor CPE allows service providers to offer broadband wireless services to customers in Non Line of Site (NLOS) locations. The ExcelMax CPE 3400 supports a strong suite of Quality of Service (QoS) features, including Committed Information Rate (CIR), Peak Information Rate (PIR) and Best Effort services. The CPE supports Call Admission Control (CAC) features, which allows for scalable carrier class VoIP services and the IGMP protocol which supports Video Broadcast services. All CPEs in a service provider network are completely manageable remotely by Axxcelera's carrier-class Network Management System using SNMP protocol.

REASONS TO BUY EXCELMAX Indoor CPE

ExcelMax Indoor CPE offers service providers an ability to offer residential broadband wireless services at rates competitive with wireline technologies. The self install nature of the indoor CPE allows Service Providers to sell CPEs from retail outlets since no professional installation mechanisms are needed for the indoor CPE. Its multi-service capabilities and QoS features allow service providers to offer reliable, high quality, revenue generating applications (data, VoIP and video broadcast) to different customer types (residential, SoHo, MDU and SME). The mature CPE architecture has been deployed in large data, voice and video networks and ensures reliable operations in the field. Axxcelera provides a suite of management, installation, provisioning and configuration tools which make the installation and maintenance of the CPE extremely simple.



RF SPECIFICATIONS

Frequency Band	3.3-3.8 GHz
Air Interface Standard	802.16-2004
Architecture	Point to Multipoint (PMP)
Duplex Scheme	Half Duplex FDD/TDD
FDD Duplex Spacing	100 MHz typical
RF Channel Sizes	7 MHz, 3.5 MHz and 1.75 MHz
Modulation Types	Dynamic Adaptive: 64QAM, 16QAM, QPSK, BPSK
Coding Rates	1/2, 2/3 and 3/4
Net Throughput	18 Mbps (7 MHz channel size)
Transmit Power	+18 dBm
Receive Sensitivity	-100dBm
Antenna Beam Width	Omni
Antenna Gain	6 dBi

ENVIRONMENTAL CHARACTERISTICS

Operating Temperature	-5°C to +40°C
Operating Humidity	10-90% non-condensing
Power supply	120-240 VAC 50-60 Hz
Power consumption	15 Watts nominal
Dimensions	4" x 6" x 2"
Weight	5 lbs

STANDARDS SUPPORTED

Air Interface	IEEE 802.16-2004
NLOS Enhanced Features	Uplink Sub-channelization; Space Time Coding
Prioritization	802.1p (8 different prioritization levels)
VLAN	802.1Q
VoIP	SIP, MGCP, H323, CAC
Video Broadcast	IGMP
Security/Encryption	BS and SS authentication via x.509 certificates, CBC-Mode 56-bit DES, AES-CCM mode
Interfaces	10/100 Base T Full Duplex
Network Management	SNMP
International Standards	Wireless performance ETSI EN 301 753 and EN 301 021 Antenna performance ETSI EN 302 085 CE Compliance via European R&TTE Directive Annex IV Self-Declaratory process Emissions: EN55022 (CISPR 22) to Class B; EN61000-3-2 and EN61000-3-3 Susceptibility: EN300 489 (includes EN61000 series) EN60950 (IEC 950): Including amendments 1-4
EMC	
Safety	



Axxcelera
B R O A D B A N D W I R E L E S S

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