

SkyWay-MAX CPE

Powered by
SOLECTEK

3.xGHz

PTMP

WiMAX

802.16

OFDM

1024
Clients

Near
-LOS



Outdoor
CPE

Product Highlights

- WiMAX, IEEE 802.16-2004 compliant
- NLOS service provisioning
- LED visual indication for power, link conditions
- Indoor and outdoor versions – flexible service models
- Compact design for easy installation
- Automatic Transmit Power Control
- Dynamic Adaptive Modulation
- Plug-and-Play for centralized configuration and service provisioning
- Uplink subchannelization
- Fujitsu MB87M3550 processor based
- Remote management support via SNMP
- Fail-safe “over the air” software upgrade (dual flash)
- Separate indoor network gateway for voice and WiFi interfaces

CPE Flexibility

For customers closer to the base site, WNI Global’s Indoor CPE delivers a low-cost, zero-install option to maximize carrier ROI. For customers at longer distances or those requiring maximum performance, the Outdoor CPE is a simple yet highly effective solution. Installation of the wall or mast mount device is straightforward and requires only a simple Cat5 cable run. Complete with a visual antenna alignment system and a remotely managed, Plug-and-Play capability, installation of the CPE can often be accomplished without a service provider truck roll.

Increased Ranges

The SkyWay-MAX Subscriber Station unit features a sophisticated uplink subchannelization feature which can increase the Receive sensitivity up to 12 dB.

QoS

The SkyWay-MAX Subscriber Station is a part of a system-wide capability to provision and deliver multi-tiered Quality of Service (QoS) guarantees. Such capability is a result of number of features such as Ethernet and IP packet classification (802.1p/q, IP ToS/Diffserv), optimal Base Station scheduling algorithms and a carrier grade service-flow administration system. The SkyWay-MAX Subscriber Station is designed from the start to support a carrier’s QoS and SLA provisioning need.

The Indoor Network Gateway

A key application in WiMAX service delivery is the ability to provide voice channels. WNI Global’s Network Gateway provides for the added service via ether VoIP or standard POTS interfaces. In addition, the Gateway includes an indoor WiFi router with an Ethernet switch, eliminating clutters of equipment and further facilitating the end-to-end service and management of a Carrier’s system.

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SPECIFICATIONS

RADIO	
Protocol Compliance	802.16-2004
Modulation	OFDM256 – BPSK, QPSK, 16QAM, 64 QAM
Duplexing	TDD
Frequency Range	3.300 – 3.700 GHz
Bandwidth	1.75 – 7.00 MHz
RF Power Output	Up to +20 dBm
Antenna Configuration	Integrated, 30 degree directional panel
SECURITY	
Authorization	PKM, configurable credentials lifetime Key Management X.509 digital certificates, RSA (PKCS #1) public key algorithm
Encryption	3DES, AES
NETWORK	
Bridging	802.1d Transparent Bridging
MANAGEMENT	
Access	HTTP Telnet / SSH, SNMP v1, v2, v3
Control	Compatible with custom EMS, including centralized plug and play QoS packet inspection + prioritization
Diagnostics	RF, Ethernet port status, Custom Event Log, Alarms and SNMP traps
POWER	
Architecture	PoE based, 802.3af compliant
Consumption	12 Watts peak
Voltage	+48 VDC nominal
INTERFACES	
Port	RJ45
LEDs	Power, Link / Activity, RSSI
PHYSICAL	
Configuration	Weatherized, outdoor grade plastic enclosure
Size	9.5" x 7.5" x 3"; 241 x 191 x 76 mm
Weight	1.2 lb; 0.544 Kg
Mounting	Wall, Mast (Pole)
ENVIRONMENTAL	
Operating Temperature	-30°C to +50°C
Humidity	0 – 100%, condensing
Wind	80 MPH (50 Km/h) operation, 110 MPH (68 Km/h) survivability
ORDERING INFORMATION	
Contact your WNI Global Account Executive for detailed ordering information.	

