

High Performance WiMAX for Enterprise Services

The PacketMAX® 300 series subscriber unit provides intelligent performance meeting the needs of the large businesses and enterprises.



PacketMAX 300

WiMAX Forum Certified™ PacketMAX 300 series subscriber units permit service providers to effectively serve the most demanding segment of the WiMAX user base: large businesses and enterprises. The PacketMAX 300 delivers the entire range of functions required to suit virtually any business environment while supporting high speed service to hundreds of simultaneously connected users. With the PacketMAX 300, performance meets intelligence—a single system can support thousands of tiered-service subscribers for voice, web browsing, file downloads, streaming video, and other multi-megabit data services simultaneously managed over the wireless link. PacketMAX 300 supports the OFDM 256 FFT PHY.

PacketMAX 300 models operate in licensed and license-exempt WiMAX bands in 3 GHz and 5 GHz. PacketMAX 300 is compliant with the IEEE 802.16d-2004 standard. Leveraging Aperto's heritage as a WiMAX technology leader, the PacketMAX system delivers superior link performance, unsurpassed quality of service, and the broadest range of networking features for an optimized WiMAX deployment.

Intuitive to provision, install, and manage, the PacketMAX 300 is designed to help business subscribers reap the benefits of lower cost, broadband wireless access without the complication and expense of leased wire line service. PacketMAX 300 provides wireless operators with the reliable performance needed to honor service level agreements required by the most demanding business customers and the capacity needed to support multi-dwelling residential customers.

Aperto offers PacketMAX 300 models designed to meet a variety of subscriber and network requirements. The choice of capabilities includes: bridging, IP networking, integrated VoIP processing, extended range antennas, and a host of features allowing scalable differentiated services for the large business and enterprise customer.

The PacketMAX 300 consists of an outdoor radio with integrated antenna, interfaced to an indoor networking unit. An indoor unit interfaces to a standard ethernet network and conveniently accepts AC power. Ethernet cabling carries network signaling and system power between the indoor and outdoor units.

■ ■ KEY FEATURES

- WiMAX Forum Certified
- IEEE 802.16-2004 compliant
- License and license-exempt frequency bands
- Superior QoS for multi-service support including voice over IP
- Advanced IP networking and security functions
- Fail-safe, over-the-air firmware upgrades
- LOS, OLOS, NLOS deployments

■ ■ Typical Applications

- High-end customer premise equipment for large business and enterprise customers
- MDU/MTU access for thousands of subscribers simultaneously
- Scalable, differentiated services with application-aware and subscriber-aware traffic classification and prioritization
- Low cost multi-megabit data service alternative to expensive leased line service
- Create "hot zones" by backhauling WiFi access used for municipal and mesh network configurations



PacketMAX 300 System Specifications

Radio and System Specifications

Compliance	: IEEE 802.16-2004, ETSI HiperMAN
Frequency	: 3.3 GHz, 3.5 GHz, 5.8 GHz bands
Radio Output Power	: up to 20 dBm
Modulation	: BPSK, QPSK, 16QAM, 64QAM
Integral Antenna Gain	: 16 dBi
Optional External Antenna	: Yes
Receiver Sensitivity	: Yes
Cyclic Prefex	

IP Networking Features/Options

IP Version	: IPV4 (RFC 791)
Bridging Mode	: IEEE 802.3d
VLANs	: IEEE 802.1 P/Q
Max Simultaneous Users	: 250
Receiver Sens	

Management

Remote Management and Monitoring	: WaveCenter EMS Pro
Remote Management Access	: Telnet, SNMP, HTTP
Provisioning	: Centralized using WaveCenter EMS Pro

Mechanical

Antenna Alignment	: Audio buzzer, LED; pole and wall mount
Interfaces	: One RJ-45 LAN; Type-N connector (option)
Power over Ethernet	: Yes

Environmental

RoHS Compliant	: Yes
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■ ■ About Aperto Networks

Aperto Networks helps leading service providers deliver affordable wireless voice and broadband profitably by building the world's most advanced WiMAX base stations and subscriber units. Aperto fundamentally changes the economics of delivering voice and broadband services through IP-rich, point-to-point and point-to-multipoint networks, allowing carriers to offer a wider variety of services to more customers using less equipment. Its carrier-class WiMAX technology offers industry-leading subscriber density, quality of service, ease of use and reliability. Aperto is a founding board member of the WiMAX Forum as well as a founder and lead contributor to IEEE 802.16 and the ETSI-BRAN standards. Serving more than 400 customers in over 90 countries, Aperto Networks is based in Milpitas, California. For more information on Aperto Networks, go to www.apertonet.com.