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PacketMAX 100 Subscriber Unit
Product Brief

Solution to Suit Any Subscriber Environment

The PacketMAX 100 series subscriber unit provides an economical solution for small enterprise, home office, and consumers.

PacketMAX 100

The WiMAX Forum Certified™ PacketMAX® 100 series of subscriber units allows service providers to take full advantage of the growing WiMAX market. The PacketMAX 100 is economically deployed and delivers the features required to address the underserved small enterprise, home office, and residential markets. With PacketMAX 100, end users can browse web pages, make voice calls, view streaming video, and download files—simultaneously over the wireless link at multi-megabit speeds.

Aperto offers PacketMAX 100 series models operating in licensed and license-exempt 3 GHz and 5 GHz bands using spectrum-efficient TDD scheduling. PacketMAX 100 units are compliant with the IEEE 802.16-2004 standard. Leveraging Aperto's heritage as a WiMAX technology leaders, the PacketMAX system delivers superior link performance, unsurpassed quality of service, and the broadest range of networking features for an optimized WiMAX deployment.

Providers can install a PacketMAX 100 series subcriber unit in minutes. The units do not require a direct line of sight with the base station, and support centralized WiMAX provisioning from the remote management and monitoring station. PacketMAX 100 series subscriber units consist of an outdoor radio with integrated antenna or optional external antenna for even greater gain. An indoor unit interfaces to standard ethernet networks and conveniently accepts AC power. Ethernet cabling carries network signaling and system power between the indoor and outdoor units.

Aperto offers PacketMAX 100 models designed to meet a variety of subscribers and network requirements. The choice of capabilities includes bridging, IP networking, network address translation, fire wall, integrated VoIP processing, and a host of features allowing simultaneous differentiated services for the small enterprise and home office user.

■ ■ KEY FEATURES

- WiMAX Forum Certified
- IEEE 802.16-2004 compliant
- Superior QoS for multi-service support including voice services
- Licensed and license-exempt frequency bands
- Fale-safe, over-the-air firmware upgrades
- LOS, OLOS, NLOS deployments
- Full remote management capability with Aperto's
- WaveCenter EMS Pro®

■ ■ Typical Applications

- Economical last mile access for solution for small to medium businesses, home offices, and consumers
- QoS enabled IP voice and data services over T1/E1
- "Wireless DSL" service offering greater bandwidth and lower cost to the end user
- Create hot zones by backhauling WiFi access used for municipal and mesh network configurations
- Scalable, differentiated services with application-aware and subscriber-aware traffic classification and prioritization
- Offer Voice over IP based services with single integrated solution

WiMAX FORUM CERTIFIED

A Decade of Wireless Broadband Leadership.

Radio and System Specifications

Compliance	: WiMAX Forum Certified™ IEEE 802.16-2004, ETSI HiperMAN
Frequency	: 3.3 GHz, 3.5 GHz, 5.8 GHz bands
Radio Output Power	: 20 dBm (3 GHz), 17 dBm (5 GHz)
Modulation	: BQPSK, 16QAM, 64QAM
Integral Antenna Gain	: 16 dBi
Optional External Antenna	: Yes

IP Networking Features/Options

IP Version	: IPV4 (RFC 791), DHCP client
Bridging Mode	: IEEE 802.1d
VLANs	: IEEE 802.1 P/Q
Max Simultaneous Users	: 5

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

■ ■ 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.