wi4 WiMAX

WAP 600 Series Access Point

A ground based WiMAX access point solution offering high power for extended coverage over large areas.

Motorola's WAP 600 Access Point with high power, enhanced MIMO-RF capabilities and flexible design in a traditional ground-based form factor further expands the 802.16e choices available in Motorola's wi4 WiMAX Flexible Access Point system.

WAP 600 SERIES ACCESS POINTS

High Power & High Performance
The WAP 600, based on IEEE 802.16e-2005 WiMAX standards, is built with dual path TX/RX diversity antenna techniques and integrated RF and base band modules. It includes a spectrally efficient S-OFDMA interface, low latency performance, and is designed to work in a WiMAX distributed network architecture. Enhanced system gain, supported by MIMO capabilities, allows deep indoor penetration and cellular-like, mobility applications. Additionally, QoS capabilities, security features, and redundancy options make the WiMAX WAP 600 platform a true carrier-class solution.

The WAP 600 can deliver up to 20 Watts of output per sector-carrier. It's flexible design enables multiple sector and multiple carrier expansions that reduce CAPEX in the inital deployment. Designed for high power requirements, the WAP 600 is best suited for providing coverage to large areas and can be deployed in exisiting indoor facilities or outdoors.

Fixed & Mobile Application
The WAP 600 provides Non-Line-of-Sight, fixed and mobile wireless broadband connections. Paired with a common IP core, this access point, with diversity antenna techniques, will support seamless inter-technology handovers.

Ease of Installation and Management
Motorola's wi4 WiMAX product portfolio is designed for easy installation, management and operation. The WAP 600 Series is available in indoor and outdoor configurations and has common modular elements across both configurations. This assures easy solution expansion. The flexible hardware and software programmable radios provide the benefits of no touch software updates for reduced CAPEX and OPEX

Reduced CAPEX & OPEX
The IP end-to-end design of the WAP 600 with the Motorola wi4 WiMAX distributed network architecture eliminates high-cost centralized boxes, simplifies management, and reduces core transport costs. Connectivity to standard IP equipment allows operators to realize significant cost advantages.

WHY MOTOROLA

Motorola is uniquely positioned to address the wireless broadband market through the MOTOwi4 vision. Motorola has aligned its business units and roadmaps to provide a comprehensive, end-to-end solution covering all aspects of the broadband wireless access deployment. With our deep and extensive patent portfolio, over a decade of R&D investment, and our experience as a global supplier of broadband wireless access solutions, Motorola is primed to deliver its best in class WiMAX Access Point solution.

Motorola is committed to leading the industry with end-to-end WiMAX solutions addressing the full scope of the operator's deployment needs including access, core, devices, network management and services.

WAP 600 Access Point System Specifications

	Indoor WAP 600	Outdoor WAP 600
Application	**Fixed and Mobile**	
Frequency Bands	2.5Ghz (2.495 - 2.690GHz)	
Channel Bandwidth	5 or 10 MHz	
Carriers*	up to 3	
Sectors	up to 3	
Air Interface	WiMAX certified IEEE 802.16e-2005 (S0OFDMA)	
Transit/Receive Chains	2Tx & 2 Rx	
Wireline Interface	IEEE 802.3 (10/100/1000 Base T Ethernet)	
Operating Temperature	0°C to 50°C	-40°C to 55°C
Duplex Mode	TDD	
Modulation and Coding	QPSK (coding rates of 1/2 and 3/4), 16 QAM (coding rates of 1/2 and 3/4), 64QAM (coding rates of 1/2, 2/3, 3/4, and 5/6) - downlink	
Output Power	20 watts per sector-carrier	
Availability	Up to 99.995%	
Traffic Prioritization Features	Supports IEEE 802.1Q, Layer2 IEEE 802.1p, IPv4 Diffserv (DSCP)	
QoS	Supports Unsolicited Grant Service (UGS), Real-time Polling Service (rtPS). Extended Real-time Polling Service (ertPS), Non-real-time Polling Service (nrtPS) and Best Effort (BE)	
Security	Supports EAP authentication, CCM-AES 128bit data encryption and authentication, PKMv2 key management protocol	
Dimensions***	(HxWxD): 86"x 21"x 27" (2184mm x 533mm x 686mm	(HxWxD): 43" x 47" x 37" (1092mm x 1194mm x 940mm)
Weight***	441 lbs (200Kg)	661 lbs (300 Kg)
Powere Inputs**	-48V	
Regulatory Compliance	ETSI & FCC type approved & RoHS/WEEE compliant	

* Carrier expansion requires additional hardware
** For outdoor configurations, an optional battery and rectifier cabinet is available
*** Specifications shown apply for 2 carrier / 3 sector configuration

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Motorola, Inc. www.motorola.com/wimax