



Expedience® Dual-Mode Access Point

High performance
Dual-Mode Access Point
for Expedience or
WiMAX (802.16e) networks



Motorola's WAP 400 Access Point solution provides a common hardware platform for operation of Motorola's proprietary Expedience or standards based WiMAX air interfaces. When used in conjunction with Motorola's Dual-Mode Customer Premise Equipment, it provides the operator the flexibility of operating an Expedience network today while providing a simple transition to WiMAX in the future.

The WAP 400 features dual mode capabilities utilizing either the Expedience proprietary air link, or the IEEE 802.16e-2005 standards based air link. For existing networks or greenfield applications, Expedience mode operation provides the operator the confidence they have come to expect with the proven Expedience air link protocol. Its dual mode capabilities provide the operator the flexibility of growing their customer base today while planning for a future transition to WiMAX.

Motorola's wi4 WiMAX portfolio of Expedience and 802.16e products and services offers industry leading breadth and depth, allowing us to map the right architecture to meet an operator's specific deployment issues. Recognizing that a true end-to-end solution extends beyond the access network, Motorola's wi4 Expedience and WiMAX solutions deliver an extensive portfolio of compelling devices, operations and management tools, integration and optimization services and, most important, the confidence to bring WiMAX to market.

BENEFITS

- NLOS fixed and mobile wireless broadband
- Operates in Expedience or WiMAX mode
- Graceful transition path to WiMAX
- No touch software updates
- Reduced OPEX due to end-to-end IP design
- Ease of installation and management
- Reduced CAPEX
- Variable site configurations

SPECIFICATION SHEET

MOTOROLA EXPEDIENCE DUAL-MODE ACCESS POINT

MOTOROLA and MOTOwi4™

The Motorola Dual-Mode Access Point is part of the MOTOwi4 family of broadband wireless access technologies, a comprehensive platform of wireless broadband solutions and services. Designed to complement and complete operator networks. 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.

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.

MOTOROLA DUAL-MODE ACCESS POINT UNIT SPECIFICATIONS

Application	Expedience Mode	(see WiMAX data sheet for WiMAX specifications)
Base Site Architecture	Fixed and Nomadic	
Base Site Architecture	Active RF heads with integrated antennas and high-speed digital connections to Base Control Unit over fiber	
Frequency Band	2.5 GHz	
Channel Bandwidth	2.5 GHz: 5.5 or 6 MHz	
Air Interface	Proprietary OFDM 4/16/64 QAM	
Duplex Mode	Time Division Duplex (TDD)	
Physical Dimensions		
Diversity RF Module	(HxWxD): 712 x 178 x 229 mm (28"x7"x9"); Weight: 16 kg (35 lbs)	
Control Unit	(HxWxD): 788 x 508 x 483 mm (31"x20"x19"); Weight: 68 kg (150 lbs)	
Operating Temperature	-40°C to 55°C Outdoor and Indoor	
RF Output Power	2 Watts	
RF Impedance	50 Ohms	
RF Sensitivity	-96 dBm (2.5 GHz, 6 MHz channel, 4 QAM)	
Power Inputs	-48 VDC, +27 VDC, 88-240 VAC	
Power Consumption	1.3KW typical (4-sector base site)	
Baseband Control Unit to RF Access Point Cabling Connection	Optical Fiber, DC Power	
Wireline Interface	IEEE 802.3 (10/100/1000 Base T Ethernet)	
Availability	Up to 99.995%	
Regulatory Compliance	FCC type approved & RoHS/WEEE compliant	
Antenna Elements	2 per sector (1 used in Expedience mode)	
Transmit / Receive Chains	1/1 Expedience mode, 2/2 WiMAX mode	



MOTOROLA

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