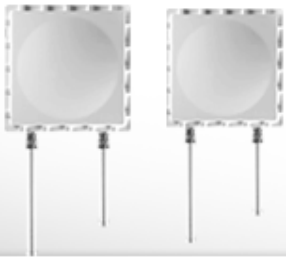
The Leader in **End-to-End Broadband Wireless Networks** for **Voice**, **Video**, **Data** and **Mobility**



Wi-Fi Mesh

High Capacity Mesh Radios for Metropolitan, Enterprise and Public Safety Wi-Fi Networks

Proxim's high capacity Wi-Fi® mesh Access Points (APs) deliver flexible, scalable and reliable data, voice and video networks for large metropolitan and enterprise Wi-Fi deployments

High-Capacity Wi-Fi Mesh Access Points with dual-radio architecture delivers data, voice and video over Wi-Fi to the edge of a network over a flexible, auto-forming, self-healing, near line of sight mesh backbone.

Optimized Mesh Performance

ORiNOCO Mesh Creation Protocol (OMCP) enables mesh backhaul and Wi-Fi coverage on one radio, while the second radio is used exclusively for Wi-Fi coverage

Reduce Network Complexity

The dual-radio ORiNOCO Wi-Fi Mesh Access Points deliver data, voice and video over Wi-Fi to the edge of a network over a flexible, auto-forming, and self-healing; near line of sight mesh backbone

Proactive Security Measures

ORiNOCO access points support the latest security standards, including IEEE 802.11i and AES encryption, and add proactive security measures to prevent attacks

Simplified Convergence

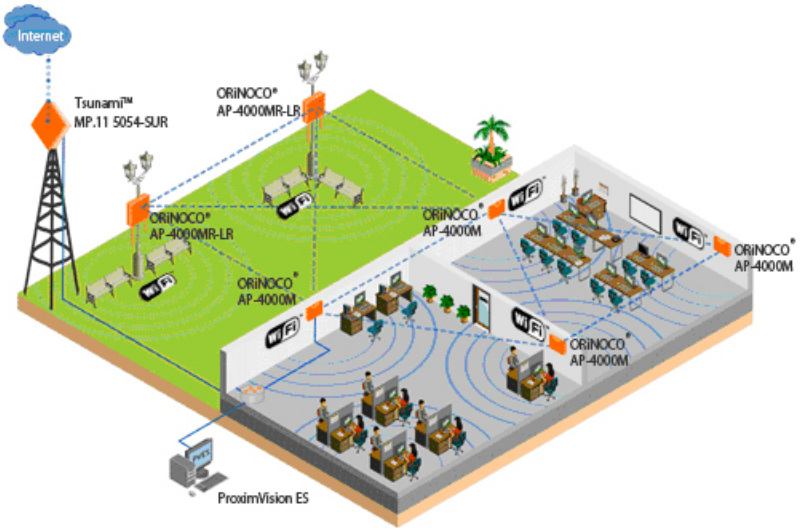
Industry-leading throughput with 802.11b/g and 802.11a simultaneous operation

Flexible Channel Planning Worldwide

Supports License-free and licensed frequency bands worldwide in 2.4GHz, 5.15-5.35 GHz, 5.47-5.725 GHz, 5.725-6.08 GHz frequency bands

Advanced Features

Tools to speed installation and optimization: Automatic channel selections, adjustable transmit power, QoS and much more



Wireless Network Diagram Featuring Wi-Fi Mesh Connections

Proxim Wireless At-a-Glance
Wi-Fi® Mesh Product Portfolio





	MeshMax™ Series	ORiNOCO® Wi-Fi® Mesh Series		ORiNOCO® Public Safety Wi-Fi® Mesh Series	
Product	3500WM, 3500W, 5054WM, 5054W	AP-4000MR(-LR)	AP-4000M/AP-4000	AP-4900MR-LR	AP-4900M
Description	Industry's first convergence of WiMAX, Wi-Fi Mesh and Wi-Fi	High-capacity, multiple-use outdoor Wi-Fi mesh system	Dual-radio enterprise-class indoor AP with QoS, simultaneous a/b/g support and enhanced security	High-capacity, outdoor Wi-Fi Mesh system for Public Safety applications	Dual-radio indoor AP with QoS, simultaneous a/b/g support and enhanced security for public safety
Applications	• Network operator can deliver bundle of IPTV, VoIP and Internet access to subscribers • Secure and reliable backhaul of Wi-Fi Mesh traffic • Security and surveillance	• Metro-area Wi-Fi coverage with fully redundant wireless backbone • Mobile wireless networking at edge of network • Voice, video and data transmission with optimal economics	• LAN extension for nomadic access to corporate network, Internet and e-mail • Hotspot • Guest access to Internet • Voice, video and data	• Metro-area and mobile Wi-Fi coverage using 4.9 GHz U.S. public safety • Voice, video and data transmission for mobile public safety vehicles	• Metro-area and mobile Wi-Fi coverage using 4.9 GHz U.S. public safety • Voice, video and data transmission for mobile public safety vehicles
Environments	• Municipal, rural and service provider broadband networks • Enterprise campus networks	• Municipal and rural broadband networks • Service provider broadband networks • Enterprise campus networks	• Enterprises • Hotspots: retail, hotel, airport • K-12 and higher education	• Municipal and rural broadband networks • Public safety networks including fire, police and emergency first responders • Security and surveillance	• Municipal and rural broadband networks • Public safety networks including fire, police and emergency first responders • Security and surveillance
Key Features	• Tri-radio design provides WiMAX backhaul, Wi-Fi Mesh link and Wi-Fi access in one device • Simplifies network architecture, deployment and management • Significantly reduces TCO with lowest deployment cost per square mile	• Dual-radio outdoor access point • 802.11b/g Wi-Fi access • ORiNOCO Mesh Creation Protocol (OMCP) for backhaul at 5 GHz • Fast handoffs for mobility • Secure management • Enterprise class security • Extended range (-LR Models) • QoS	• Dual-radio design offers operational flexibility and high capacity • User-selectable 802.11a, b or g operation • IEEE 802.11i and AES encryption • QoS for latency-sensitive voice, data and video applications	• Dual-radio outdoor access point • 802.11b/g Wi-Fi access • ORiNOCO Mesh Creation Protocol (OMCP) for backhaul at 4.9 GHz • Fast handoffs for mobility • Secure management • Enterprise class security • Extended range • QoS	• Dual-radio indoor base station • 802.11b/g Wi-Fi access • ORiNOCO Mesh Creation Protocol (OMCP) for backhaul at 4.9 GHz • Fast handoffs for mobility • Secure management • Enterprise class security • QoS
SPECIFICATIONS					
Frequency Band	• 3.5 GHz or 5.15-5.85 GHz (WiMAX link) • 5.15-5.85 GHz (Mesh link) • 2.4 GHz or 5.15-5.85 GHz (Wi-Fi access)	• 2.4 GHz or 5.15-5.85 GHz for access • 5.47-5.725 GHz for backhaul (AP-4000MR) • 5.745-5.85 GHz for backhaul (AP-4000MR-LR)	• 2.4 GHz for access • 5.15-5.85 GHz for backhaul	• 2.4 GHz for access • 4.9 GHz for backhaul	• 2.4 GHz for access • 4.9 GHz for backhaul
RF Protocol	• 802.16-2004 or WORP (WiMAX) • 802.11a (Wi-Fi and Mesh) • 802.11a, 802.11b/g (Wi-Fi)	• 802.11b/g • 802.11a	• 802.11b/g • 802.11a	• 802.11b/g • 802.11a	• 802.11b/g • 802.11a
Data Rate	25.4 Mbps (3.5 GHz) 54 Mbps (5.15-5.85 GHz and 2.4GHz)	54 Mbps	54 Mbps	54 Mbps	54 Mbps
QoS	• 802.16d QoS (WiMAX) • Draft 802.11e; 802.1p; 802.1q (Wi-Fi Mesh)	Draft 802.11e; 802.1p; 802.1q	Draft 802.11e; 802.1p, 802.1q	Draft 802.11e; 802.1p; 802.1q	Draft 802.11e; 802.1p; 802.1q
Security	• AES (WiMAX) • 802.11i, AES, TKIP (Wi-Fi Mesh)	• 802.11i • AES Encryption, TKIP	• 802.11i • AES Encryption, TKIP	• 802.11i • AES Encryption, TKIP	• 802.11i • AES Encryption, TKIP
Form Factors	ODU tri-radio device, 3 x Type-N connectors	ODU dual-radio, 2 x Type-N connectors	IDU with external antenna connectors	ODU dual-radio, 2 x Type-N connectors	IDU with external antenna connectors

For detailed technical specifications, please go to **http://www.proxim.com/products/meshmax**

www.proxim.com

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