



PRODUCT	ORiNOCO® AP-4000MR (-LR)	ORiNOCO AP-4900MR-LR	TeraMax™	Tsunami® MP.11 2454 / MP.11 5054	Tsunami MP.16 3500
Description	High-capacity, multiple-use outdoor wireless mesh system	Public safety outdoor wireless mesh system	Low-cost, data-only OFDM point-to-multipoint system	Capabilities of fixed and mobile WiMAX for U.S. and Global Markets	WiMAX Forum Certified™ products for 3.5 GHz frequency band
Applications	<ul style="list-style-type: none"> • Metro-area Wi-Fi® coverage with fully redundant wireless backbone • Mobile wireless networking • Voice, video and data transmission with optimal economics 	<ul style="list-style-type: none"> • Metro-area and mobile Wi-Fi coverage using 4.9 GHz U.S. public safety • Voice, video and data transmission with optimal economics 	<ul style="list-style-type: none"> • Broadband last-mile access for metropolitan and rural areas • Networks requiring data but not voice and video • Extending TurboCell® networks 	<ul style="list-style-type: none"> • Broadband last-mile access for metropolitan and rural areas • Mobile wireless networking • Voice, video and data transmission with optimal economics 	<ul style="list-style-type: none"> • Broadband last-mile access for metropolitan and rural areas • Voice, video and data transmission with optimal economics • Network protection using licensed 3.5 GHz frequency band
Environments	<ul style="list-style-type: none"> • Municipal broadband networks • Service provider broadband networks • Enterprise metro-area networks 	<ul style="list-style-type: none"> • Police • Fire • Emergency first responders 	<ul style="list-style-type: none"> • Service provider broadband networks • Municipal broadband networks 	<ul style="list-style-type: none"> • Service provider broadband networks • Municipal broadband networks • Broadband access for ground and water transportation • Security and surveillance 	<ul style="list-style-type: none"> • Service provider broadband networks • Municipal broadband networks • Regions where 3.5 GHz frequency band is available for commercial use
Key Features	<ul style="list-style-type: none"> • Dual-radio base station • 802.11a + b/g Wi-Fi coverage • ORiNOCO Mesh Creation Protocol (OMCP) for backhaul at 5 GHz • Fast handoffs for mobility • Secure Management • Enterprise class security • Extended range (-LR Models) 	<ul style="list-style-type: none"> • Dual-radio base station • 802.11b/g Wi-Fi coverage • ORiNOCO Mesh Creation Protocol (OMCP) for backhaul at 4.9 GHz • Fast handoffs for mobility • Secure Management • Enterprise class security • Extended range (-LR Models) 	<ul style="list-style-type: none"> • Adaptive dynamic polling to eliminate intracell interference • OFDM modulation for near-line of sight connections • Operates in 5.8 GHz band (license-free in many countries) 	<ul style="list-style-type: none"> • WiMAX functionality available now for U.S. license-free frequency bands • WiMAX QoS for voice, data and video • Fast handoffs for mobility • Optional dynamic frequency selections to detect 67 radar types 	<ul style="list-style-type: none"> • Product complies with IEEE 802.16 - 2004 standard • Operates at licensed 3.5 GHz frequency band • Leverages mechanical design of Tsunami MP.11
SPECIFICATIONS					
Frequency Band	<ul style="list-style-type: none"> • 2.4 GHz or 5 GHz for access • 5.47-5.725 GHz for backhaul (AP-4000MR) • 5.745-5.85 GHz for backhaul (AP-4000MR-LR) 	<ul style="list-style-type: none"> • 2.4 GHz for access • 4.9 GHz for backhaul 	<ul style="list-style-type: none"> • 5.8 GHz 	<ul style="list-style-type: none"> • 2.4 GHz (2454) • 5.25-5.35 GHz, 5.4-5.7 GHz and 5.725-5.850 GHz (5054) 	<ul style="list-style-type: none"> • 3.5 GHz
Wireless Protocol	<ul style="list-style-type: none"> • 802.11a, 802.11b, 802.11g 	<ul style="list-style-type: none"> • 802.11b, 802.11g 	<ul style="list-style-type: none"> • TurboCell (proprietary) 	<ul style="list-style-type: none"> • Wireless Outdoor Routing Protocol (WORP; proprietary) 	<ul style="list-style-type: none"> • 802.16-2004
OTA Data Rate*	54 Mbps	54 Mbps	36 Mbps	54 Mbps	12.7 Mbps @ 3.5 MHz Channel
QoS	Draft 802.11e; 802.1p	Draft 802.11e; 802.1p	No	802.16 QoS: up to 8 service classes, 4 service flows and 8 PIRs per service	802.16 QoS: up to 64 service classes, 16 service flows and 16 PIRs per service
Roaming	Yes	Yes	No	Yes - Fast handoffs at speeds up to 120m/hr (200km/h)	No
Dynamic Frequency Selection	Yes	N/A - Automatic Channel Selection	No	Yes	No
Security	<ul style="list-style-type: none"> • 802.11i • AES Encryption, TKIP 	<ul style="list-style-type: none"> • 802.11i • AES Encryption, TKIP 	<ul style="list-style-type: none"> • AES • DES • Blowfish • Proprietary nature of RF protocol 	<ul style="list-style-type: none"> • AES • Proprietary nature of RF protocol • Packet filtering • Intracell blocking 	<ul style="list-style-type: none"> • AES
Form Factors	ODU, 2 x N-connectors	ODU, 2 x N-connectors	<ul style="list-style-type: none"> • Base: ODU, N-connector • Subscriber station: ODU,N-connector or Integrated 23 dBi FP Antenna 	<ul style="list-style-type: none"> • Base: ODU, N-connector • Subscriber station: ODU, N-connector or Integrated 18 or 23 dBi Antenna • Indoor CPE 	<ul style="list-style-type: none"> • Base: ODU, N-connector • Subscriber station: ODU, N-connector or Integrated 21 dBi Antenna

For detailed technical specifications, please visit <http://www.proxim.com/products/bwa/multipoint>

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