



PRODUCT	ORiNOCO® AP-4000MR	ORiNOCO® AP-4900MR	TeraMax™	Tsunami® MP.11 2454 / MP.11 5054	Tsunami® MP.16 3500
<b>Description</b>	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
<b>Applications</b>	<ul style="list-style-type: none"> <li>Metro-area Wi-Fi coverage with fully redundant wireless backbone</li> <li>Mobile wireless networking</li> <li>Voice, video and data transmission with optimal economics</li> </ul>	<ul style="list-style-type: none"> <li>Metro-area and mobile Wi-Fi coverage using 4.9 GHz U.S. public safety</li> <li>Voice, video and data transmission with optimal economics</li> </ul>	<ul style="list-style-type: none"> <li>Broadband last-mile access for metropolitan and rural areas</li> <li>Networks requiring data but not voice and video</li> <li>Extending TurboCell® networks</li> </ul>	<ul style="list-style-type: none"> <li>Broadband last-mile access for metropolitan and rural areas</li> <li>Mobile wireless networking</li> <li>Voice, video and data transmission with optimal economics</li> </ul>	<ul style="list-style-type: none"> <li>Broadband last-mile access for metropolitan and rural areas</li> <li>Voice, video and data transmission with optimal economics</li> <li>Network protection using licensed 3.5 GHz frequency band</li> </ul>
<b>Environments</b>	<ul style="list-style-type: none"> <li>Municipal broadband networks</li> <li>Service provider broadband networks</li> <li>Enterprise metro-area networks</li> </ul>	<ul style="list-style-type: none"> <li>Police</li> <li>Fire</li> <li>Emergency first responders</li> </ul>	<ul style="list-style-type: none"> <li>Service provider broadband networks</li> <li>Municipal broadband networks</li> </ul>	<ul style="list-style-type: none"> <li>Service provider broadband networks</li> <li>Municipal broadband networks</li> <li>Broadband access for ground and water transportation</li> <li>Security and surveillance</li> </ul>	<ul style="list-style-type: none"> <li>Service provider broadband networks</li> <li>Municipal broadband networks</li> <li>Regions where 3.5 GHz frequency band is available for commercial use</li> </ul>
<b>Key Features</b>	<ul style="list-style-type: none"> <li>Dual-radio base station</li> <li>802.11a + b/g Wi-Fi coverage</li> <li>ORiNOCO Mesh Creation (OMCP) for backhaul at 5 GHz</li> <li>Fast handoffs for mobility</li> <li>Secure Management</li> <li>Enterprise class security</li> </ul>	<ul style="list-style-type: none"> <li>Dual-radio base station</li> <li>802.11b/g Wi-Fi coverage</li> <li>ORiNOCO Mesh Creation Protocol (OMCP) for backhaul at 4.9 GHz</li> <li>Fast handoffs for mobility</li> <li>Secure Management</li> <li>Enterprise class security</li> </ul>	<ul style="list-style-type: none"> <li>Adaptive dynamic polling to eliminate intracell interference</li> <li>OFDM modulation for near-line of sight connections</li> <li>Operates in 5.8 GHz band (license-free in many countries)</li> </ul>	<ul style="list-style-type: none"> <li>WiMAX functionality available now for U.S. license-free frequency bands</li> <li>WiMAX QoS for voice, data and video</li> <li>Fast handoffs for mobility</li> <li>Optional dynamic frequency selections to detect 67 radar types</li> </ul>	<ul style="list-style-type: none"> <li>Product complies with WiMAX 802.16d-2004 standard</li> <li>Operates at licensed 3.5 GHz frequency band</li> <li>Leverages mechanical design of Tsunami MP.11</li> </ul>
<b>SPECIFICATIONS</b>					
<b>Frequency Band</b>	<ul style="list-style-type: none"> <li>2.4 GHz or 5 GHz for access</li> <li>5 GHz for backhaul</li> </ul>	<ul style="list-style-type: none"> <li>2.4 GHz for access</li> <li>4.9 GHz for backhaul</li> </ul>	<ul style="list-style-type: none"> <li>5.8 GHz</li> </ul>	<ul style="list-style-type: none"> <li>2.4 GHz (2454)</li> <li>5.25-5.35 GHz, 5.4-5.7 GHz and 5.725-5.850 GHz (5054)</li> </ul>	<ul style="list-style-type: none"> <li>3.5 GHz</li> </ul>
<b>RF Protocol</b>	<ul style="list-style-type: none"> <li>802.11a, 802.11b, 802.11g</li> </ul>	<ul style="list-style-type: none"> <li>802.11b, 802.11g</li> </ul>	<ul style="list-style-type: none"> <li>TurboCell (proprietary)</li> </ul>	<ul style="list-style-type: none"> <li>Wireless Outdoor Routing Protocol (WORP; proprietary)</li> </ul>	<ul style="list-style-type: none"> <li>802.16d-2004</li> </ul>
<b>OTA Data Rate*</b>	54 Mbps	54 Mbps	36 Mbps	54 Mbps	13 Mbps
<b>Max Throughput*</b>	Up to 40 Mbps @ 20 MHz Channel	Up to 40 Mbps @ 20 MHz Channel	Up to 16 Mbps @ 20 MHz Channel	Up to 30 Mbps @ 20 MHz Channel	Up to 9.3 Mbps @ 3.5 MHz Channel
<b>Max Range*</b>	<ul style="list-style-type: none"> <li>Up to 5 miles for 802.11a</li> <li>Up to 19 miles for 802.11b/g</li> </ul>	<ul style="list-style-type: none"> <li>Up to 1.7 miles for 4.9 GHz</li> <li>Up to 19 miles for 802.11b/g</li> </ul>	<ul style="list-style-type: none"> <li>Up to 3 miles PtMP</li> <li>Up to 30 miles PTP EX enclosures</li> <li>Up to 8 miles PTP Flat Panels</li> </ul>	<ul style="list-style-type: none"> <li>Up to 12.5 miles PtMP</li> <li>Up to 20 miles PTP</li> </ul>	<ul style="list-style-type: none"> <li>Up to 14 miles</li> </ul>
<b>QoS</b>	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
<b>Roaming</b>	Yes	Yes	No	Yes - Fast handoffs at speeds up to 120m/hr (200km/h)	No
<b>Dynamic Frequency Selection</b>	Yes	N/A - Automatic Channel Selection	No	Yes	No
<b>Security</b>	<ul style="list-style-type: none"> <li>802.11i</li> <li>AES Encryption</li> </ul>	<ul style="list-style-type: none"> <li>802.11i</li> <li>AES Encryption</li> </ul>	<ul style="list-style-type: none"> <li>AES</li> <li>DES</li> <li>Blowfish</li> <li>Proprietary nature of RF protocol</li> </ul>	<ul style="list-style-type: none"> <li>AES</li> <li>Proprietary nature of RF protocol</li> <li>Packet filtering</li> <li>Intracell blocking</li> </ul>	<ul style="list-style-type: none"> <li>AES</li> </ul>
<b>Form Factors</b>	ODU, 2 x N-connectors	ODU, 2 x N-connectors	<ul style="list-style-type: none"> <li>Base: ODU, N-connector</li> <li>Subscriber station: ODU, N-connector or Integrated 23 dBi FP Antenna</li> </ul>	<ul style="list-style-type: none"> <li>Base: ODU, N-connector</li> <li>Subscriber station: ODU, N-connector or Integrated 18 or 23 dBi Antenna</li> <li>Indoor CPE</li> </ul>	<ul style="list-style-type: none"> <li>Base: ODU, N-connector</li> <li>Subscriber station: ODU, N-connector or Integrated 21 dBi Antenna</li> </ul>

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

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