

# At-a-Glance

## Point-to-Multipoint product portfolio



	Tsunami™ MP-8200 Series	Tsunami™ MP-8100 Series		Tsunami™ MP.11 Series
<b>Product</b>	Tsunami™ MP-8200	Tsunami™ MP-8100/8150-SUR/8150-SUR-100	Tsunami™ 8160-BSU/SUA/CPE	Tsunami™ MP.11 5054-R/5012
<b>Description</b>	The Tsunami™ MP-8200, is a high power, extremely reliable and a cost-effective radio	4G wireless connectivity for carrier, WISP and Government networks	Cost-effective wireless customer premises equipment for large scale networks	Capabilities of fixed and mobile communication for license-free frequencies
<b>Applications</b>	<ul style="list-style-type: none"> <li>• Intelligent transportation system</li> <li>• Video surveillance</li> <li>• Last mile</li> <li>• Emergency first responder</li> <li>• Enterprise campus connectivity</li> <li>• Health care</li> <li>• Carriers and Wisps</li> </ul>	<ul style="list-style-type: none"> <li>• Cellular voice, video and data networks</li> <li>• Wireless connectivity for streaming video from surveillance cameras</li> <li>• WISP and Carriers</li> <li>• Security and surveillance networks</li> <li>• Government and public safety networks</li> </ul>	<ul style="list-style-type: none"> <li>• Residential and business broadband Internet access</li> <li>• Voice, video and data networks</li> <li>• Carriers and WISP's</li> <li>• Government and public safety networks</li> <li>• Health care</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</li> <li>• Security and surveillance</li> <li>• Broadband access for ground and water transportation</li> <li>• Service provider and municipal broadband networks</li> </ul>
<b>Key Features</b>	<ul style="list-style-type: none"> <li>• 25.8 dBm (Triple chain) high power radio</li> <li>• Seamless roaming up to 112 Kmph</li> <li>• Interoperable with MP-8100 &amp; MP.11</li> <li>• Dual Gigabit Ethernet with PoE out</li> <li>• IP 67 Grade</li> <li>• Easy , quick installation and management</li> <li>• 3X3 MIMO technology</li> </ul>	<ul style="list-style-type: none"> <li>• Widest range of operating frequencies</li> <li>• Supports 3x3, 2x2 MIMO smart antenna technology</li> <li>• Dual Gigabit Ethernet ports with PoE out to power other external devices like surveillance cameras</li> <li>• 21 dBm high power radio</li> </ul>	<ul style="list-style-type: none"> <li>• Widest range of operating frequencies</li> <li>• Supports 2x2 MIMO smart antenna technology</li> <li>• Non-line-of-sight capabilities</li> <li>• 25 dBm high power radio</li> </ul>	<ul style="list-style-type: none"> <li>• QoS for voice, data and video</li> <li>• Fast handoff for mobility up to 112kmph</li> <li>• Aggressive ROI and fast payback for network providers</li> <li>• Interoperability between MP.11 5054 and MP.11 5012</li> </ul>
<b>SPECIFICATIONS</b>				
<b>Frequency Band</b>	• 4.900 - 5.925 GHz	• 2.3 – 2.5 GHz • 4.9 – 6.0 GHz (8150)	• 5.900 – 6.425 GHz Subject to Country Regulations	• 5 GHz
<b>Wireless Protocol</b>	• Wireless Outdoor Routing Protocol (WORP®)	• Wireless Outdoor Routing Protocol (WORP®)	• Wireless Outdoor Routing Protocol (WORP®)	• Wireless Outdoor Routing Protocol (WORP®)
<b>Data Rate</b>	• 300Mbps	• 300Mbps, 100Mbps (8150-SUR-100)	• 300Mbps	• 54Mbps
<b>Throughput</b>	• 240Mbps (3X3 MIMO)	• up to 200Mbps	• up to 200, 100Mbps (CPE)	• up to 29Mbps/12Mbps (MP.11 5012)
<b>QoS</b>	• 802.16d QoS	• 802.16d QoS	• 802.16d QoS	• 802.16d QoS
<b>Security</b>	<ul style="list-style-type: none"> <li>• AES - 128 bits</li> <li>• Secure Management (SSL, SSH, SNMPv3)</li> <li>• Proprietary nature of RF protocol</li> <li>• Packet filtering, Intra-cell blocking</li> </ul>	<ul style="list-style-type: none"> <li>• AES - 128 bits</li> <li>• Secure Management (SSL, SSH, SNMPv3)</li> <li>• Proprietary nature of RF protocol</li> <li>• Packet filtering, Intra-cell blocking</li> </ul>	<ul style="list-style-type: none"> <li>• AES - 128 bits</li> <li>• Secure Management (SSL, SSH, SNMPv3)</li> <li>• Proprietary nature of RF protocol</li> <li>• Packet filtering, Intra-cell blocking</li> </ul>	<ul style="list-style-type: none"> <li>• AES - 128 bits</li> <li>• Proprietary nature of RF protocol</li> <li>• Packet filtering, Intra-cell blocking</li> </ul>
<b>Form Factors</b>	<ul style="list-style-type: none"> <li>• Base: ODU with three N-type antenna connectors</li> <li>• Subscriber station: ODU with three N-type antenna connectors</li> </ul>	<ul style="list-style-type: none"> <li>• Base: ODU, Three N-type Antennas Connectors</li> <li>• Subscriber station: ODU, Three N-type Antennas connectors (SUA) or Integrated 23 (SUR) /21 dBi (8150 SUR 100) dual polarity antenna</li> </ul>	<ul style="list-style-type: none"> <li>• Base: ODU, Two N-type Antennas Connectors</li> <li>• Subscriber station: ODU, Two N-type Antennas connectors (SUA)</li> <li>• CPE ODU, Integrated 15 dBi antenna</li> </ul>	<ul style="list-style-type: none"> <li>• Base: ODU, One N-type Antennas Connectors</li> <li>• Subscriber station: ODU, One N-type Antennas Connectors (SUA) or Integrated 23 dBi Antenna (SUR)</li> <li>• Outdoor Subscriber (MP.11 5012): Integrated 18 dBi antenna</li> </ul>