

At-a-Glance

Point-to-Multipoint product portfolio



	Tsunami® MP-8100 Series		Tsunami® MP.11 Series	
Product	Tsunami® MP-8100/8160-BSU/SUA/SUR	Tsunami® MP-8150/8160-CPE	Tsunami® MP.11 5054-R	Tsunami® MP.11 5012
Description	4G wireless connectivity for carrier, WISP and government networks	Cost-effective wireless customer premises equipment for large scale networks	Capabilities of fixed and mobile WiMAX for license-free frequencies	Economical subscribers ideal for large scale deployments
Applications	<ul style="list-style-type: none"> Cellular voice, video and data networks Repeater to extend distance Wireless connectivity for streaming video from surveillance cameras WISP and Carriers Security and surveillance networks Government and public safety networks 	<ul style="list-style-type: none"> Residential and business broadband Internet access Voice, video and data networks Carriers and WISP's Government and public safety networks Health care 	<ul style="list-style-type: none"> Broadband last-mile access for metropolitan and rural areas Voice, video and data transmission Security and surveillance Broadband access for ground and water transportation Service provider and municipal broadband networks 	<ul style="list-style-type: none"> Broadband last-mile access for metropolitan and rural areas Voice, video and data transmission Security and surveillance Service provider and municipal broadband networks Broadband access for ground and water transportation
Key Features	<ul style="list-style-type: none"> Widest range of operating frequencies Supports 2x2(8160), 3x3 MIMO smart antenna technology 6 GHz operating frequency (8160) Non-line-of-sight capabilities Dual Gigabit Ethernet ports with PoE out to power other external devices like surveillance cameras 26 dBm high power radio (8160) 	<ul style="list-style-type: none"> Widest range of operating frequencies Supports 2x2 MIMO smart antenna technology Non-line-of-sight capabilities 6 GHz operating frequency (8160) 24/26 (8160) dBm high power radio 	<ul style="list-style-type: none"> WiMAX capabilities for license-free frequency bands WiMAX QoS for voice, data and video Fast handoffs for mobility up to 200km/hr 	<ul style="list-style-type: none"> Aggressive ROI and fast payback for network providers Compatible with existing MP.11 5054 products Throughput comparable to or better than cable/DSL
SPECIFICATIONS				
Frequency Band	<ul style="list-style-type: none"> 2.3 - 2.5 GHz (except SUR) 4.9 GHz 5.900 - 6.425 GHz (8160) Subject to Country Regulations 6.1 GHz (except SUR) 	<ul style="list-style-type: none"> 5.3 - 6.1 GHz 5.900 – 6.425 GHz (8160) Subject to Country Regulations 	<ul style="list-style-type: none"> 5 GHz 	<ul style="list-style-type: none"> 5 GHz
Wireless Protocol	<ul style="list-style-type: none"> Wireless Outdoor Routing Protocol (WORP) 	<ul style="list-style-type: none"> Wireless Outdoor Routing Protocol (WORP) 	<ul style="list-style-type: none"> Wireless Outdoor Routing Protocol (WORP) 	<ul style="list-style-type: none"> Wireless Outdoor Routing Protocol (WORP)
Data Rate	<ul style="list-style-type: none"> 300 Mbps 	<ul style="list-style-type: none"> 300Mbps 	<ul style="list-style-type: none"> 54Mbps 	<ul style="list-style-type: none"> 54Mbps
Throughput	<ul style="list-style-type: none"> up to 170 Mbps 	<ul style="list-style-type: none"> up to 100 Mbps 	<ul style="list-style-type: none"> up to 29 Mbps 	<ul style="list-style-type: none"> up to 12 Mbps
QoS	<ul style="list-style-type: none"> 802.16d QoS (WiMAX) 	<ul style="list-style-type: none"> 802.16d QoS (WiMAX) 	<ul style="list-style-type: none"> 802.16d QoS (WiMAX) 	<ul style="list-style-type: none"> 802.16d QoS (WiMAX)
Security	<ul style="list-style-type: none"> AES - 128 bits Secure Management (SSL, SSH, SNMPv3) Proprietary nature of RF protocol Packet filtering, Intracell blocking 	<ul style="list-style-type: none"> AES - 128 bits Secure Management (SSL, SSH, SNMPv3) Proprietary nature of RF protocol Packet filtering, Intracell blocking 	<ul style="list-style-type: none"> AES - 128 bits Proprietary nature of RF protocol Packet filtering, Intracell blocking 	<ul style="list-style-type: none"> AES - 128 bits Proprietary nature of RF protocol Packet filtering, Intracell blocking
Form Factors	<ul style="list-style-type: none"> Base: ODU, Two (8160)/Three N-type Antennas Connectors Subscriber station: ODU, Two (8160)/ Three N-type Antennas connectors (SUA) or Integrated 23 dBi dual polarity antenna (SUR) 	<ul style="list-style-type: none"> ODU, Integrated 15 (8160),16 dBi dual polarity antenna 	<ul style="list-style-type: none"> Base: ODU, One N-type Antennas Connectors Subscriber station: ODU, One N-type Antennas Connectors (SUA) or Integrated 23 dBi Antenna (SUR) 	<ul style="list-style-type: none"> Indoor Subscriber: Bundled with 15 dBi Window Antenna Outdoor Subscriber: Integrated 18 dBi antenna