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# Proxim Products At A Glance:

## Tsunami Multipoint and MP.11 Product Families



| Product | Tsunami MP.11 Model 5054 | Tsunami MP.11 Model 5054-R | | Tsunami MP.11 Model 2454-R | |
|---|---|---|---|---|---|
| Integrated Antenna or Connectorized* | Connectorized | Connectorized | Integrated Antenna | Connectorized | Integrated Antenna |
| Over-the-Air-Data Rate | 36 Mbps | 36 Mbps | 36 Mbps | 36 Mbps | 36 Mbps |
| Frequency Band (GHz) | 5.15 to 5.35 GHz; 5.47 to 5.725 GHz; 5.725 to 5.850 GHz | 5.25 to 5.35 GHz; 5.47 to 5.725 GHz; 5.725 to 5.850 GHz | | 2.400 to 2.497 GHz | 2.400 to 2.497 GHz |
| Frequency Channel Plans (Non-Overlapping) | Americas (FCC): 5.25 to 5.35 GHz (3 channels)<br>Americas (FCC): 5.725 to 5.850 GHz (5 channels)<br>Europe (ETSI): 5.47 to 5.725 GHz (11 channels)<br>Europe (Russia): 5.15 to 5.85 GHz (21 channels)<br>Europe (Licensed in the UK): 5.725 to 5.850 GHz (4 channels) | Americas (FCC): 5.25 to 5.35 GHz (15 channels)<br>Americas (FCC): 5.725 to 5.850 GHz (21 channels)<br>Europe (ETSI): 5.47 to 5.725 GHz (46 channels)<br>Europe (Russia): 5.15 to 5.850 GHz (82 channels)<br>Europe (Licensed in the UK): 5.725 to 5.850 GHz (21 channels) | | Americas (FCC): 2.4 to 2.4835 GHz (13 channels)<br>Europe (ETSI): 2.4 to 2.4835 GHz (13 channels)<br>Japan (MKK): 2.4 to 2.497 GHz (14 channels) | |
| Uplink Interface | Ethernet | Ethernet | Ethernet | Ethernet | Ethernet |
| Chassis Type | IDU plus antenna | All ODU or IDU plus antenna | All ODU | All ODU or IDU plus antenna | All ODU |
| Output Power (at maximum setting) | 5.15 to 5.35 GHz: 16 dBm (max) for 6-36 Mbps with 20 MHz channel<br>5.47 to 5.725 GHz: 16 dBm (max) for 6-36 Mbps with 20 MHz channel<br>5.725 to 5.850 GHz: 18.5 dBm (max) for 6-36 Mbps with 20 MHz channel<br>Output Power Attenuation: 0 to 18dB, in 3 dB steps | 5.15 to 5.35 GHz: 15 dBm for 6-24 Mbps and 13 dBm for 36 Mbps with 20 MHz channel<br>5.47 to 5.725 GHz: 16 dBm for 6-24 Mbps and 13 dBm for 36 Mbps with 20 MHz channel<br>5.725 to 5.850 GHz: 16 dBm for 6-24 Mbps and 13 dBm for 36 Mbps with 20 MHz channel<br>Output Power Attenuation: 0 to 18dB, in 3dB steps | | Americas (FCC): 2.4 to 2.4835 GHz (13 channels) for 36 Mbps with 20 MHz channel<br>Output Power Attenuation: 0 - 18 dB, in 3dB steps | |
| Threshold | 20 MHz Turbo channel: -85 to -81 dBm for 12 to 36 Mbps<br>20 MHz channel: -87 to -76 dBm for 6 to 36 Mbps | 20 MHz Turbo channel: -85 dBm to -75 dBm for 12 to 72 Mbps<br>20 MHz channel: -88 to -77 dBm for 6 to 36 Mbps<br>10 MHz channel: -91 to -80 dBm for 3 to 18 Mbps<br>5 MHz channel: -94 to -83 dBm for 1.5 to 6 Mbps | | 20 MHz Turbo channel: N/A<br>20 MHz Turbo channel: -91 to -79 dBm for 6 to 36 Mbps<br>10 MHz channel: -94 to -82 dBm for 3 to 18 Mbps<br>5 MHz channel: -97 to -85 dBm for 1.5 to 9 Mbps | |
| Management | SNMPv2c, Telnet and CLI , HTTP | SNMPv2c, Telnet and CLI , HTTP | | SNMPv2c, Telnet and CLI , HTTP | |
| Subscriber Unit Roaming | Yes | Yes | Yes | Yes | Yes |
| Bandwidth Management | Bi-directional Rate-Limiting (64kbps increment) | Bi-directional Rate-Limiting (64kbps increment) | | Bi-directional Rate-Limiting (64kbps increment) | |
| Security | WEP and AES Encryption | WEP and AES Encryption | | WEP and AES Encryption | |
| QoS | No | No | No | No | No |
| Net Throughput | 28 Mbps (31 Mbps in Turbo Mode) | 28 Mbps (31 Mbps in Turbo Mode) | | 21 Mbps (Turbo Mode not available) | |
| No. of Subscribers per BSU | 250 | 250 | 250 | 250 | 250 |
| Active Interference Rejection | No | No | No | No | No |
| SU-to-SU blocking | Yes | Yes | Yes | Yes | Yes |
| Dynamic Data Rate Selection | Yes | Yes | Yes | Yes | Yes |
| Bridging & IP Routing Modes | Yes | Yes | Yes | Yes | Yes |
| VLAN (802.1q) Support | Yes | Yes | Yes | Yes | Yes |
| IP/RIP v2 per BSU | Yes (1 subnet per subscriber unit) | Yes (1 subnet per subscriber unit) | | Yes (1 subnet per subscriber unit) | |
| NAT/DCHP per SU | Yes | Yes | Yes | Yes | Yes |
| Power over Ethernet | Yes[1] | Yes[1] | Yes[1] | Yes[1] | Yes[1] |
| Warranty | 1 year | 1 year | 1 year | 1 year | 1 year |
| Order Number | BSU: 5054-BSU; SU: 5054-SU;<br>RSU: 5054-RSU | BSU: 5054-BSUR;<br>SU: 5054-SUA | SU: 5054-SUR | BSU: 2454-BSUR;<br>SU: 2454-SUA | SU: 2454-SUR |

[1] Non IEEE 802.3af compliant

*External Antenna Connector

# Proxim Products At A Glance: Tsunami Multipoint and MP.11 Product Families

| Product | Tsunami Multipoint 20 | Tsunami Multipoint 60 | | Tsunami Multipoint A.I.R. 20 | Tsunami Multipoint A.I.R. 60 |
|---|---|---|---|---|---|
| Integrated Antenna or Connectorized* | Integrated Antenna | Integrated Antenna | Connectorized | Integrated Antenna | Integrated Antenna |
| Over-the-Air-Data Rate | 20 Mbps | 60 Mbps | 60 Mbps | 20 Mbps | 60 Mbps |
| Frequency Band (MHz) | 5.725 to 5.85 GHz | 5.725 to 5.85 GHz | 5.725 to 5.85 GHz | 5.725 to 5.85 GHz | 5.725 to 5.85 GHz |
| Frequency Channel Plans (Non-Overlapping) | 5.725 to 5.85 GHz supports 6 channels | 5.725 to 5.85 GHz supports 6 channels | | 5.725 to 5.85 GHz supports 6 channels | 5.725 to 5.85 GHz supports 6 channels |
| Uplink Interface | Ethernet | Ethernet | Ethernet | Ethernet | Ethernet |
| Chassis Type | All ODU | All ODU | All ODU or IDU plus antenna | All ODU | All ODU |
| Output Power (at maximum setting) | BSU: 18dBm into 18dBi antenna<br>SU: 15dBm into 20dBi antenna | BSU: 18dBm into 18dBi antenna<br>SU: 15dBm into 20dBi antenna | BSU: 18dBm<br>SU: 15dBm | BSU: 18dBm into 18dBi antenna<br>SU: 15dBm into 20dBi antenna | BSU: 18dBm into 18dBi antenna<br>SU: 15dBm into 20dBi antenna |
| Threshold | -89dBm | -77dBm for 60Mbps; -81dBm for 40Mbps; -86dBm for 30Mbps; -89dBm for 20Mbps | | -89dBm | -77dBm for 60Mbps; -81dBm for 40Mbps; -86dBm for 30Mbps; -89dBm for 20Mbps |
| Management | CLI, SNMP MIB (via SNMP Toolkit) | CLI, SNMP MIB (via SNMP Toolkit) | | CLI, SNMP MIB (via SNMP Toolkit) | CLI, SNMP MIB (via SNMP Toolkit) |
| Subscriber Unit Roaming | No | No | No | No | No |
| Bandwidth Management | N/A | N/A | N/A | N/A | N/A |
| Security | Proprietary Encoding and Passwords | Proprietary Encoding and Passwords | | Proprietary Encoding and Passwords | Proprietary Encoding and Passwords |
| QoS | 2 Priority Queues (IP ToS) | 2 Priority Queues (IP ToS) | 2 Priority Queues (IP ToS) | 2 Priority Queues (IP ToS) | 2 Priority Queues (IP ToS) |
| Net Throughput | 18 Mbps | 54 Mbps | 54 Mbps | 18 Mbps | 54 Mbps |
| No. of Subscribers per BSU | 1,023 | 1,023 | 1,023 | 1,023 | 1,023 |
| Active Interference Rejection | No | No | No | Yes | Yes |
| SU-to-SU blocking | Yes | Yes | Yes | Yes | Yes |
| Dynamic Data Rate Selection | No | No | No | No | No |
| Bridging & IP Routing Modes | Yes | Yes | Yes | Yes | Yes |
| VLAN (802.1q) Support | Yes | Yes | Yes | Yes | Yes |
| IP/RIP v2 per BSU | Yes (1 subnet per subscriber unit) | Yes (1 subnet per subscriber unit) | | Yes (1 subnet per subscriber unit) | Yes (1 subnet per subscriber unit) |
| NAT/DCHP per SU | No | No | No | No | No |
| Power over Ethernet | Yes[2] | Yes[2] | Yes[2] | Yes[2] | Yes[2] |
| Warranty | 1 year | 1 year | 1 year | 1 year | 1 year |
| Order Number | BSU: 301-40400-25;<br>SU: 301-40100-252 | BSU: 301-40400-65;<br>SU: 301-40100-652 | BSU: 301-40400-65C;<br>SU: 301-40100-65C | BSU: 301-40400-25R;<br>SU: 301-40100-252 | BSU: 301-40400-65R;<br>SU: 301-40100-652 |

[1] Requires separate purchase of Proxim AE 3af DC Power Injector, or use with switch that supports IEEE 802.3af

[2] Power over Ethernet injector is included with the SU but sold seperately for the BSU

[3] Non IEEE 802.3af compliant

*External Antenna Connector

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Proxim Wireless Corp.
2115 O'Nel Drive
San Jose, CA 95131

tel: 800.229.1630
tel: 408.731.2700
www.proxim.com

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