

	Quickbridge® 10250 BeamX Series	Quickbridge® 10100S Series	Quickbridge® 10100L	Quickbridge® 10100-xxx	Edge Quickbridge 1015	Tsunami® GX-824
Frequency Band (Subject to country regulations)	4.900 – 5.850 GHz (Subject to Country Regulations)	4.900 – 5.925 GHz (Subject to Country Regulations)	4.900 – 5.925 GHz (Subject to country regulations)	4.900 – 5.925 GHz (Subject to Country Regulations)	5.150 – 5.925 GHz (Subject to Country Regulations)	24.050 to 24.250 GHz
MIMO	2x2:2	2x2:2	2X2	2X2	2x2:2 and 4x4:4 <sup>1</sup>	Dual Polarity (one per direction)
Channel Size	80 MHz, 40 MHz and 20 MHz	80 MHz, 40 MHz and 20 MHz	40 MHz and 20 MHz channel bandwidths with optional upgrade to 80 MHz	80 MHz, 40 MHz and 20 MHz	20, 40, 80 MHz	3.5 to 80 MHz
Throughput	<ul style="list-style-type: none"> <li>672 Mbps @ 80 MHz</li> <li>324 Mbps @ 40 MHz</li> <li>137 Mbps @ 20 MHz</li> </ul>	<ul style="list-style-type: none"> <li>672 Mbps @ 80 MHz</li> <li>324 Mbps @ 40 MHz</li> <li>137 Mbps @ 20 MHz</li> </ul>	<ul style="list-style-type: none"> <li>672 Mbps @ 80 MHz (with Optional Upgrade)</li> <li>324 Mbps @ 40 MHz</li> <li>137 Mbps @ 20 MHz</li> </ul>	<ul style="list-style-type: none"> <li>License controlled to 50, 100 or 200 Mbps</li> </ul>	<ul style="list-style-type: none"> <li>Up to 100 Mbps (license upgrade to 200 Mbps)</li> </ul>	<ul style="list-style-type: none"> <li>900 Mbps full duplex (1800 Mbps true aggregate)</li> </ul>
TX Power	<ul style="list-style-type: none"> <li>Up to 28 dBm (dual chain)</li> </ul>	<ul style="list-style-type: none"> <li>Up to 28 dBm (dual chain)</li> </ul>	<ul style="list-style-type: none"> <li>Upto 28 dBm (Dual chain)</li> </ul>	<ul style="list-style-type: none"> <li>Up to 28 dBm (dual chain)</li> </ul>	<ul style="list-style-type: none"> <li>Up to 24 dBm (dual chain) or Up to 27 dBm (quad chain)</li> </ul>	<ul style="list-style-type: none"> <li>From -27 to +5 dBm</li> </ul>
Antenna	Integrated 2x2 MIMO Beam Steering antenna: <ul style="list-style-type: none"> <li>Beam Width - 17° spanning over ± 30° sector</li> <li>Receive Gain - 16 dBi (11 dBi before 5.150 GHz)</li> <li>Transmit Gain - 20 dBi (11 dBi before 5.150 GHz)</li> </ul>	<ul style="list-style-type: none"> <li>Two N-type Connectors with built-in Surge Protection</li> <li>Integrated 2x2 MIMO 22dBi Dual Polarized 1 foot Panel Antenna</li> </ul>	<ul style="list-style-type: none"> <li>QB-10100L-EPA: Two N-type Connectors with built-in Surge Protection</li> <li>QB-10150L-EPR: Integrated 2x2 MIMO 22dBi Dual Polarized 1 foot Panel Antenna</li> </ul>	<ul style="list-style-type: none"> <li>Two N-type Connectors</li> </ul>	<ul style="list-style-type: none"> <li>Integrated 2x2 MIMO 15 dBi Dual Polarized 35 degree Pannel Antenna plus Four RP-SMA Connectors (Software switch between integrated antenna and connectors)</li> </ul>	<ul style="list-style-type: none"> <li>Integrated with the ODU (1, 2, 3 or 4 foot options)</li> </ul>
Security	<ul style="list-style-type: none"> <li>AES - 128 bits</li> <li>Secure management (SSL/TLS, SSH, SNMPv3)</li> <li>Proprietary nature of RF protocol</li> </ul>	<ul style="list-style-type: none"> <li>AES - 128 bits</li> <li>Secure management (SSL/TLS, SSH, SNMPv3)</li> <li>Proprietary nature of RF protocol</li> </ul>	<ul style="list-style-type: none"> <li>AES - 128 bits</li> <li>Secure management (SSL/TLS, SSH, SNMPv3)</li> <li>Proprietary nature of RF protocol</li> </ul>	<ul style="list-style-type: none"> <li>AES - 128 bits</li> <li>Secure management (SSL/TLS, SSH, SNMPv3)</li> <li>Proprietary nature of RF protocol</li> </ul>	<ul style="list-style-type: none"> <li>AES - 128 and AES - 256 bits</li> <li>Secure management (SSL/TLS, SSH, SNMPv3)</li> <li>Proprietary nature of RF protocol</li> </ul>	<ul style="list-style-type: none"> <li>AES - 256 bits</li> </ul>
Ethernet Ports	Two auto MDI-X RJ45 10/100/1000Mbps Ethernet (Port #1 with PoE in & Data, Port #2 with PoE out & Data)	Two auto MDI-X RJ45 10/100/1000Mbps Ethernet (Port #1 with PoE in & Data, Port #2 with PoE out & Data)	Two auto MDI-X RJ45 10/100/1000Mbps Ethernet (Port #1 with PoE in & Data, Port #2 with PoE out & Data)	One auto MDI-X RJ45 10/100/1000Mbps Ethernet with 802.3af/at PoE in	One auto MDI-X RJ45 10/100/1000Mbps Ethernet with 802.3af/at PoE in	Two Gigabit Ethernet 1000Base-T (RJ45) Auto MDIX ports with 10k jumbo frame support One Optic Fiber 1000Base-SX / 1000Base-LX / 1000Base-BX port
QoS	Service flow based QoS with 32 queues and layer 2, 3 and 4 packet identification rules	Service flow based QoS with 32 queues and layer 2, 3 and 4 packet identification rules	Service flow based QoS with 32 queues and layer 2, 3 and 4 packet identification rules	Service flow based QoS with 32 queues and layer 2, 3 and 4 packet identification rules	Service flow based QoS with 32 queues and layer 2, 3 and 4 packet identification rules	4 queues based on physical port, 802.1p tag or IP DiffServ
GPS Localization	Requires optional GPS module				Included (Requires optional GPS antenna)	
Humidity - IP Rating	<ul style="list-style-type: none"> <li>100% relative humidity - IP67</li> </ul>	<ul style="list-style-type: none"> <li>100% relative humidity -IP67</li> </ul>	<ul style="list-style-type: none"> <li>100% relative humidity - IP67</li> </ul>	<ul style="list-style-type: none"> <li>100% relative humidity - IP67</li> </ul>	<ul style="list-style-type: none"> <li>100% relative humidity - IP67</li> </ul>	<ul style="list-style-type: none"> <li>100% relative humidity - IP65</li> </ul>
Operating Temperature	-40° to 140° Fahrenheit	-40° to 140° Fahrenheit	-40° to 140° Fahrenheit	-40° to 140° Fahrenheit	-22° to 131° Fahrenheit	-31° to 131° Fahrenheit
Certifications	<ul style="list-style-type: none"> <li>USA: FCC 90Y + 15E (UNII 15.247)</li> <li>Canada: IC RSS 102 + RSS 111 + RSS 247</li> <li>Europe: RED EN 301 489-1 + EN 301-489-17 + EN 301 893 + EN 302 502</li> </ul>	<ul style="list-style-type: none"> <li>USA: FCC 90Y + 15E (UNII 15.247)</li> </ul>	<ul style="list-style-type: none"> <li>USA: FCC 90Y + 15E (UNII 15.247)</li> <li>Canada: IC RSS 102 + RSS 111 + RSS 247</li> <li>Europe: RED EN 301 489-1 + EN 301-489-17 + EN 301 893 + EN 302 502</li> </ul>	<ul style="list-style-type: none"> <li>USA: FCC 90Y + 15E (UNII 15.247)</li> <li>Canada: IC RSS 102 + RSS 111 + RSS 247</li> <li>Europe: RED EN 301 489-1 + EN 301-489-17 + EN 301 893 + EN 302 502</li> </ul>	<ul style="list-style-type: none"> <li>USA: FCC 15C (15.249)</li> <li>Canada: IC RSS 210, issue 9</li> </ul>	
Dimensions	<ul style="list-style-type: none"> <li>QB-10250-BeamX: Dimensions: 14 x 14 x 3.40 in</li> <li>Weight: 7.27 lbs</li> </ul>	<ul style="list-style-type: none"> <li>QB-10100S-EPA: Dimensions: 9.84 x 8.66 x 2.83 in</li> <li>Weight: 4.20 lbs</li> <li>QB-10150S-EPR: Dimensions: 12 x 12 x 3.40 in</li> <li>Weight: 5.30 lbs</li> </ul>	<ul style="list-style-type: none"> <li>QB-10100L-EPA: Dimensions: 9.84 x 8.66 x 2.83 in</li> <li>Weight: 4.20 lbs</li> <li>QB-10150L-EPR: Dimensions: 12 x 12 x 3.40 in</li> <li>Weight: 5.30 lbs</li> </ul>	<ul style="list-style-type: none"> <li>Dimensions: 5.02x8.68x2.85 in</li> <li>Weight: 2.75 lbs</li> </ul>	<ul style="list-style-type: none"> <li>Dimensions: 6.7 x 8.55 x 2.2 in</li> <li>Weight: 2.73 lbs</li> </ul>	<ul style="list-style-type: none"> <li>Dimensions: 5.2 x 10 x 11.8 in</li> <li>Weight : 11.2 lbs without antenna</li> </ul>
Product Models	<ul style="list-style-type: none"> <li>QB-10250-LKX</li> </ul>	<ul style="list-style-type: none"> <li>QB-10100S-LNK</li> <li>QB-10150S-LNK</li> </ul>	<ul style="list-style-type: none"> <li>QB-10100L-LNK</li> <li>QB-10150L-LNK</li> </ul>	<ul style="list-style-type: none"> <li>QB-10100-LNK-50</li> <li>QB-10100-LNK-100</li> </ul>	<ul style="list-style-type: none"> <li>QB-1015-LNK</li> </ul>	<ul style="list-style-type: none"> <li>GX-824</li> </ul>

<sup>1</sup> A license upgrade to activate MU-MIMO 4x4:4 for higher throughput over the same occupied frequency band will be available in a future software release.