# Product Overview: Point-to-Point

| | Stratum™ X5 Series | Quickbridge® 10250 BeamX Series | Quickbridge® 10100S Series | Quickbridge® 10100(L) Series | Edge 1055 | Edge 1025 |
|---|---|---|---|---|---|---|
| |  |  |  |  |  |  |
| Frequency Band (Subject to country regulations) | • 5.150 – 5.850 GHz | • 4.900 – 5.850 GHz | • 4.900 – 5.925 GHz | • 4.900 – 5.925 GHz | • 4.900 – 5.925 GHz | • 5.150 – 5.925 GHz |
| MIMO | • 2x2:2 and 4x4:4 | • 2x2:2 | • 2x2:2 | • 2X2:2 | • 2x2:2 | • 2x2:2, 4x4:2 and 4x4:4[1] |
| Channel Size | • 20, 40 and 80 MHz<br>(80+80 and 160 MHz via future upgrade) | • 80 MHz, 40 MHz and 20 MHz | • 80 MHz, 40 MHz and 20 MHz | • QB-10150-LKL : 80 MHz, 40 MHz and 20 MHz channel bandwidths<br>• QB-101x0L : 40 MHz and 20 MHz channel bandwidths<br>with optional upgrade to 80 MHz | • 5, 10, 20 and 40 MHz channel bandwidths | • 20 and 40 MHz channel bandwidths<br>with optional upgrade to 80 MHz |
| Throughput | • 1581 Mbps (Quad Stream),<br>755 Mbps (Dual Stream) @ 80 MHz<br>• 820 Mbps (Quad Stream),<br>435 Mbps (Dual Stream) @ 40 MHz<br>• 442 Mbps (Quad Stream),<br>223 Mbps (Dual Stream) @ 20 MHz | • 672 Mbps @ 80 MHz<br>• 324 Mbps @ 40 MHz<br>• 137 Mbps @ 20 MHz | • 672 Mbps @ 80 MHz<br>• 324 Mbps @ 40 MHz<br>• 137 Mbps @ 20 MHz | • 672 Mbps @ 80 MHz - with Optional Upgrade (QB-101x0L)<br>• 672 Mbps @ 80 MHz (QB-10150-LKL)<br>• 324 Mbps @ 40 MHz<br>• 137 Mbps @ 20 MHz | • Up to 25 Mbps @ 5 MHz<br>• Up to 50 Mbps @ 10 MHz<br>• Up to 122 Mbps @ 20 MHz<br>• Up to 294 Mbps @ 40 MHz | • Up to 240 Mbps @ 20 MHz - MIMO 4x4<br>• Up to 380 Mbps @ 40 MHz - MIMO 4x4<br>• Up to 380 Mbps @ 80 Mhz - MIMO 2x2 (with Optional Upgrade) |
| TX Power | • Up to 26 dBm (dual chain) or 29 dBm (quad chain) | • Up to 28 dBm (dual chain) | • Up to 28 dBm (dual chain) | • Upto 28 dBm (Dual chain) | • Up to 24 dBm (dual chain) | • Up to 24 dBm (dual chain) or Up to 27 dBm (quad chain) |
| Antenna | • SX5-1040A : Four RP-SMA Connectors<br>• SX5-1042A : Integrated 4x4 MIMO 18 dBi Quad Polarized 19 degree Panel Antenna plus Four RP-SMA Connectors (Software switch between integrated antenna and connectors) | • Integrated 2x2 MIMO Beam Steering antenna:<br>• Beam Width - 17° spanning over ± 30° sector<br>• Receive Gain - 16 dBi (11 dBi before 5.150 GHz)<br>• Transmit Gain - 20 dBi (11 dBi before 5.150 GHz) | • QB-10100S-EPA : Two N-type Connectors<br>• QB-10150S-EPR: Integrated 2x2 MIMO 22dBi<br>Dual Polarized 1 foot Panel Antenna | • QB-10150-EPL: Integrated 2x2 MIMO 28dBi<br>Dual Polarized 2 feet Panel Antenna<br>• QB-10100L-EPA : Two N-type Connectors<br>• QB-10150L-EPR: Integrated 2x2 MIMO 22dBi<br>Dual Polarized 1 foot Panel Antenna | • Integrated 2x2 MIMO 15 dBi (12 dBi below 5 GHz) Dual Polarized 35 degree Panel Antenna plus two RP-SMA Connectors (Software switch between integrated antenna and connectors) | • Integrated 2x2 MIMO 15 dBi Dual Polarized 35 degree Panel Antenna plus Four RP-SMA Connectors (Software switch between integrated antenna and connectors) |
| Management | • Web GUI (admin, advanced, monitor),<br>CLI, ProximVision Advanced | • Web GUI (admin, advanced, monitor), CLI,<br>ProximVision Advanced | • Web GUI (admin, advanced, monitor), CLI, ProximVision Advanced | • Web GUI (admin, advanced, monitor), CLI,<br>ProximVision Advanced | • Web GUI (admin, advanced, monitor), CLI, ProximVision Advanced | • Web GUI (admin, advanced, monitor), CLI, ProximVision Advanced,<br>Proxim BlueConnect (android/iOS) |
| Security | • AES - 128 bits, upgradeable to AES - 256 bits<br>• Secure management (SSL/TLS, SSH, SNMPv3)<br>• Proprietary nature of RF protocol | • AES - 128 bits, upgradeable to AES - 256 bits<br>• Secure management (SSL/TLS, SSH, SNMPv3)<br>• Proprietary nature of RF protocol | • AES 128 and AES 256<br>• Secure management (SSL/TLS, SSH, SNMPv3)<br>• Proprietary nature of RF protocol | • AES - 128 bits<br>• Secure management (SSL/TLS, SSH, SNMPv3)<br>• Proprietary nature of RF protocol | • AES - 128 bits<br>• Secure management (SSL/TLS, SSH, SNMPv3)<br>• Proprietary nature of RF protocol | • AES - 128 bits<br>• Secure management (SSL/TLS, SSH, SNMPv3)<br>• Proprietary nature of RF protocol |
| Ethernet Ports | • One auto MDI-X RJ45 2.5 Gbps Ethernet with PoE in<br>• One auto MDI-X RJ45 1 Gbps Ethernet with PoE out<br>• One SFP+ cage for 10Gbps fiber module (SR or LR) | • Two auto MDI-X RJ45 10/100/1000Mbps Ethernet<br>(Port #1 with PoE in & Data, Port #2 with PoE out & Data) | • Two auto MDI-X RJ45 10/100/1000Mbps Ethernet<br>(Port #1 with PoE in & Data, Port #2 with PoE out & Data) | • Two auto MDI-X RJ45 10/100/1000Mbps Ethernet<br>(Port #1 with PoE in & Data, Port #2 with PoE out & Data) | • One auto MDI-X RJ45 10/100/1000Mbps<br>Ethernet with 802.3af/at PoE in | • One auto MDI-X RJ45 10/100/1000Mbps Ethernet<br>with 802.3af/at PoE in |
| QoS | | • Service flow based QoS with 32 queues<br>and layer 2, 3 and 4 packet identification rules | • Service flow based QoS with 32 queues<br>and layer 2, 3 and 4 packet identification rules | • Service flow based QoS with 32 queues<br>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<br>and layer 2, 3 and 4 packet identification rules |
| GPS Localization | • Requires optional GPS antenna | • Requires optional GPS module | | | | • Included (Requires optional GPS antenna) |
| Humidity - IP Rating | • 100% relative humidity - IP67 | • 100% relative humidity - IP67 | • 100% relative humidity –IP67 | • 100% relative humidity - IP67 | • 100% relative humidity - IP67 | • 100% relative humidity - IP67 |
| Operating Temperature | • -40° to 60°C | • -40° to 60°C | • -40° to 60°C | • -40° to 60° C | • -30° to 55° C | • -30° to 55° C |
| Certifications | • USA: FCC part 15B class A (EMC), part 15C (Bluetooth) and part 15E (UNII1 & UNII 3 radio)<br>• Canada: ICES-003 issue 7:2020 class A (EMC), RSS-247 issue 3 & RSS GEN issue 5 (UNII 3 radio)<br>• Europe : EN 55032:2015+A1:2020 & EN 55035:2017+A11:2020 (EMC), RED (radio – pending) : EN 301 489-1 & EN 301 489-17 & EN 301 489-19 & EN 300 328 & EN 301 893 & EN 302 502 & EN 303 413<br>• UK : BS EN 55032:2015+A1:2020 & BS EN 55035:2017+A11:2020 (EMC), UKCA (radio – pending) : EN 301 489-1 & EN 301 489-17 & EN 301 489-19 & EN 300 328 & EN 301 893 & EN 302 502 + EN 303 413 | • USA: FCC 90Y + 15E (UNII 15.247)<br>• Canada: IC RSS 102 + RSS 111 + RSS 247<br>• Europe: RED EN 301 489-1 + EN 301-489-17 + EN 301 893 + EN 302 502 | • USA: FCC 90Y + 15C + 15E (UNII 15.247)<br>• Canada: IC RSS 102 + RSS 111 + RSS 247<br>• Europe: RED EN 301 489-1 + EN 301-489-17 + EN 300 328 + EN 301 893 + EN 302 502 | • USA: FCC 90Y + 15E (UNII 15.247)<br>• Canada: IC RSS 102 + RSS 111 + RSS 247<br>• Europe: RED EN 301 489-1 + EN 301-489-17 + EN 301 893 + EN 302 502 | • USA: FCC part 15B class B (EMC), part 15E (5.2 and 5.8 GHz radio) and part 90Y (4.9 GHz radio)<br>• EUROPE: EN 301 489-1 + EN 301 489-17 | • Canada: RSS-247 issue 2, RSS-102 issue 5, ICES-003 issue 7<br>• Europe: RED EN 301 489-1 + EN 301 489-17 + EN 301 489-19 + EN 300 328 + EN 301 893 + EN 302 502 + EN 303 413 |
| Dimensions | • SX5-1040A: 250 x 220 x 62 mm<br>• Weight: 1.6 Kg<br>• SX5-1042A: 371 x 371 x 97 mm<br>• Weight: 3.0 kg | • QB-10250-EPX: Dimensions: 371 x 371 x 85 mm<br>• Weight: 3.3 kg | • QB-10100S-EPA: 250 x 220 x 72 mm,<br>• Weight: 1.9 kg<br>• QB-10150S-EPR: 305 x 305 x 85 mm,<br>• Weight: 2.4 kg | • QB-10150-EPL: Dimensions: 600 x 600 x 92 mm<br>• Weight: 6.5 kg<br>• QB-10100L-EPA: Dimensions: 250 x 220 x 72 mm<br>• Weight: 1.9 kg<br>• QB-10150L-EPR: Dimensions: 305 x 305 x 85 mm<br>• Weight: 2.4 kg | • Dimensions: 170 x 217 x 56 mm<br>• Weight: 1.19 kg | • Dimensions: 170 x 217 x 56 mm<br>• Weight: 1.24 kg |
| Product Models | • SX5-1040A-WD (Require 2 units per link)<br>• SX5-1042A-WD (Require 2 units per link)<br>• SX5-1040A-WD Quickbridge<br>• SX5-1042A-WD Quickbridge | • QB-10250-LKX-WD | • QB-10100S-LNK-WD<br>• QB-10150S-LNK-WD | • QB-10150-LKL-WD<br>• QB-10100L-LNK-WD<br>• QB-10150L-LNK-WD | • MP-1055-BS3-WD<br>(Require 2 units per link) | • MP-1025-BS3-WD<br>(Require 2 units per link) |

1. 4x4 MIMO requires an external antenna and can be configured as 4x4:2 for redundancy or 4x4:4 for higher throughput or smaller channel