




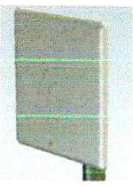
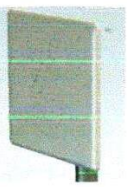





QUICK PRODUCT GUIDE

Wireless Backhaul

| Model |  |  |  |  |  |
|---------------------------------|---|---|---|---|---|
| | 7020 | 7010 | 5020-M | 5020-E | 5020-LNK |
| Topology Support | PTP, PtMP, Mesh | PTP, PtMP, Mesh | PTP, PtMP, Mesh | Edge Node | PTP |
| Installation | Outdoor | Indoor | Outdoor | Outdoor | Outdoor |
| Technology | 802.11 a/b/g/n | 802.11 a/b/g/n | 802.11 a/b/g/n | 802.11 a/b/g/n | 802.11 a/b/g/n |
| Frequency* | 2.4, 4.9 & 5 GHz | 2.4, 4.9 & 5 GHz | 2.4, 4.9 & 5 GHz | 2.4, 4.9 & 5 GHz | 2.4, 4.9 & 5 GHz |
| Max Tx Power* | 400 mW | 400 mW | 400 mW | 400 mW | 400 mW |
| Throughput | 35 Mbps (default) 150 Mbps (MIMO) 300 Mbps (bonded MIMO) | 35 Mbps (default) 150 Mbps (MIMO) 300 Mbps (bonded MIMO) | 25 Mbps (MIMO) | 25 Mbps (MIMO) | 50 Mbps (MIMO) |
| Application Support | Voice, Video & Data | Voice, Video & Data | Voice, Video & Data | Voice, Video & Data | Voice, Video & Data |
| Optional Licenses | MIMO & Dual Radio | MIMO & Dual Radio | None | None | None |
| Latency (per hop) | 1.5 ms (average) | 1.5 ms (average) | 1.5 ms (average) | 1.5 ms (average) | 1.5 ms (average) |
| Security | ESSID Encryption 256-bit AES, WPA/WPA2 | ESSID Encryption 256-bit AES, WPA/WPA2 | ESSID Encryption 256-bit AES, WPA/WPA2 | ESSID Encryption 256-bit AES, WPA/WPA2 | ESSID Encryption 256-bit AES, WPA/WPA2 |
| Management | Hotview Pro | Hotview Pro | Hotview Pro | Hotview Pro | Hotview Pro |
| Standard Warranty | 1 year | 1 year | 1 year | 1 year | 1 year |
| Package | 1 unit | 1 unit | 1 unit | 1 unit | 2 units (pair) |
| Ports | 3 x 10/100/1000 Mbps | 4 x 10/100/1000 Mbps | 1 x 10/100/1000 Mbps | 1 x 10/100/1000 Mbps | 1 x 10/100/1000 Mbps |
| PoE Equipment Support (802.3af) | 2 | 0 | 0 | 0 | 0 |
| Power Source | AC Input: 100-240 VAC, 50-60 Hz, 0.9 A DC Input: 12 VDC ± 10%, 2.8 A | DC Input: 12 VDC ± 10%, 2.8 A | Input power: 56 V / 0.55 A powered via 802.3at PoE External DC Input: 15 V / 3.0 A | Input power: 56 V / 0.55 A powered via 802.3at PoE External DC Input: 15 V / 3.0 A | Input power: 56 V / 0.55 A powered via 802.3at PoE External DC Input: 15 V / 3.0 A |
| Power Consumption | 34 W (with DC input and no PSE output) | 32 W Max | 28 W Max | 28 W Max | 28 W Max |
| Enclosure | Cast aluminum NEMA-4X/IP66 | Indoor | Cast aluminum NEMA-4X/IP66 | Cast aluminum NEMA-4X/IP66 | Cast aluminum NEMA-4X/IP66 |
| Weight | 12 lbs (5.4 kg) with bracket and sunshield | 2 lb 14 oz (1.3 kg) | 3.75 lbs (1.7 kg) | 3.75 lbs (1.7 kg) | 3.75 lbs (1.7 kg) |
| Dimension | 11.6" L X 8.1" W X 4.1" H | 9.4" L X 5.9" W X 1.6" H | 8.6" L X 8.2" W X 2.0" H | 8.6" L X 8.2" W X 2.0" H | 8.6" L X 8.2" W X 2.0" H |
| Antenna Support | Omni, Panel, Sector & Parabolic | Omni, Panel, Sector & Parabolic | Omni, Panel, Sector & Parabolic | Omni, Panel, Sector & Parabolic | Panel (in package) |
| RF Connector Type | N-Type | RP-SMA | N-Type | N-Type | N-Type |

Outdoor Antennas

| Model |  |  |  |  |  |
|-------------------------------|--|---|---|---|---|
| Type | Panel | Panel | 2 ft Parabolic | Sector | Omni-directional |
| Beamwidth (degrees) | Vertical: Vertical 14°, Dual Slant 19° Horizontal: Vertical 22°, Dual Slant 20° | Vertical: 10° Horizontal: 10° | Vertical: 5° Horizontal: 5° | Vertical: 8° Horizontal: 90° | Vertical: 17° Horizontal: 360° |
| Antenna Gain (dBi) | 19 (Vertical) 16 (dual slant) | 23 (Vertical & Horizontal) | 28 (Vertical & Horizontal) | 14 (Vertical & dual slant) | 8 (Vertical) |
| Frequency Range (GHz) | 4.9 – 6.1 | 4.9 - 5.9 | 4.9 – 6.1 | 4.9 – 6.1 | 4.9 – 6.1 |
| Polarization ** | ±45° and Vertical | Horizontal and Vertical | Horizontal and Vertical | ±45° and Vertical | All Vertical |
| MIMO Support | 3 x 3 | 2 x 2 | 2 x 2 | 3 x 3 | 3 x 3 |
| N-Type Connectors (Female) | 3 | 2 | 2 | 3 | 3 |
| Recommended Link Distance *** | Up to 1 km | Up to 5 km | Up to 15 Km | Up to 1 km | Up to 200 m |

Notes/Disclaimer:

* Frequency available & Maximum Tx Power depends on country code setting on the mesh node

** For PtMP using panel antennas, AS90-050-MIMO-16-T can only be matched with AP20-050-MIMO-19 due to same antenna polarization

*** Recommended Link Distance should only serve as a guide. The recommended link distances for respective antennas is for achieving maximum link capacity of 150Mbps UDP throughput. These recommendations are based on actual field results of using the respective antennas with HotPort 7020, MIMO enabled, 5GHz frequency band, 26dBm Tx power, 1.5m LMR-400 RF cable, lightning arrestor and in a non congested RF spectrum environment. Actual results may vary according to variation of components, transmit power and external RF environment factors.