



5.4 Ghz 300 Mbps Complete Link Integrated Antenna

BP5530BH-2DD, 5.4 GHZ 300 Mbps, Complete Backhaul System, Integrated Antenna

Integrated Line of Sight (LOS), Near and Non Line of Sight point-to-point, high-capacity, backhaul link with adaptive equalization, Package includes, Two Radio ODU's, Two Radio IDU/Power Supplies, Two Sets of mounting hardware

- o Formerly Orthogonal Spectra
- o UV Rated Cat 5 PoE cable sold separately
- o Surge Suppressor sold separately

- Canopy Part Number** • **BP5530BH-2DD**
- RF band** • 5.470 GHz–5.725 GHz*
- Channel size** • 30 MHz
- Frequency control** • By Intelligent Dynamic Frequency Selection (i-DFS) or manual intervention; automatic selection on start-up and continual adaptation to avoid interference; 10 MHz step size for WiMAX compatibility
- Transmit power control** • Varies with modulation mode and settings from 0 dBm to 25 dBm
- System gain** • Integrated: Varies with modulation mode; up to 163 dB using 23.5 dBi integrated antenna **
- Connectorized: Varies with modulation mode and antenna type**
- Receiver sensitivity** • Adaptive, varying between -91 dBm and -58 dBm
- Modulation** • Dynamic; adapting between BPSK single and 256 QAM dual
- Error correction** • FEC, ARQ
- Duplex scheme** • TDD ratio: Dynamic or Fixed; same or split frequency Tx/Rx
- Antenna: type/gain/B/W** • Integrated: Integrated flat plate 23 dBi / 7°
- Connectorized: Approved to operate with flat plate up to 28 dBi or parabolic dish up to 37.7 dBi; connected via 2 x N-type female
- Range** • Up to 124 miles (200 km)***
- Security and encryption** • Proprietary scrambling mechanism; optional AES 128 and 256 Bit Encryption
- * *Regulatory conditions for RF bands should be confirmed prior to system purchase*
- ** *Gain and maximum transmit power may vary based on regulatory domain*
- *** *In all cases the range limit is set by the latest software release*
- Protocol** • IEEE 802.3
- User data throughput** • Integrated and Connectorized Full: Dynamically variable up to 300 Mbps at the Ethernet (aggregate)
- Integrated and Connectorized Lite: Dynamically variable up to 150 Mbps at the Ethernet (aggregate)
- Latency** • <1 ms each direction typical
- Interface** • 10 / 100 / 1000 Base T (RJ-45) – auto MDI/MDIX, 1000 Base SX option
- T1/E1 Interface** • G703/G704 G823/G824
- Integrated and Connectorized: Full Provides dual T1/E1 ports
- Integrated and Connectorized Lite: Provides a single T1/E1 port
- LED indicators** • Power status, Ethernet link status and activity
- System management** • Web or SNMP using MIBII, WiMAX and private MIB
- Installation** • Built-in audio assistance for link optimization
- Connection Distance between outdoor unit and primary network connection: up to 330' (100 meters)
- Dimensions** • Integrated outdoor unit (ODU): Width 14.5" (370 mm), Height 14.5" (370 mm), Depth 3.75" (95 mm)
- Connectorized ODU: Width 12.2" (309 mm), Height 12.2" (309 mm), Depth 4.1" (105 mm)
- Powered indoor unit (PIDU Plus): Width 9.75" (250 mm), Height 1.5" (40 mm), Depth 3" (80 mm)
- Weight** • Integrated ODU: 12.1 lbs (5.5 kg) including bracket
- Connectorized ODU: 9.1 lbs (4.3 kg) including bracket
- PIDU Plus: 1.9 lbs (864 g)
- Wind speed** • 150 mph (242 kph)
- Power supply** • Integrated with Indoor Unit
- Power source** • 90–240 VAC, 50–60 Hz / 36-60V DC; redundant powering configurations supported
- Power consumption** • 55 W max
- Operating temperature** • -40°F (-40°C) to +140°F (+60°C), including solar radiation
- Protection and safety** • UL60950; IEC60950; EN60950; CSA-C22.2 No. 60950
- Radio** • 5.8 GHz: FCC Part 15, sub-part C 15.247, Eire ComReg 03/42, UK Approval to IR2007
- 5.4 GHz: EN 301 893
- EMC** • USA–FCC Part 15, Class B; Europe–EN 301 489-4

Specification subject to change without notice, check before placing orders