



5.7 Ghz 150 Mbps, Complete Link, Connectorized Antenna

BP5830BHC15-2CC, 5.7 GHz 150 Mbps, Complete Backhaul System, Connectorized Antenna

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

- Formerly Orthogon Spectra
- RG-214 N Male to N Male Cable sold separately
- Flat Panel and Parabolic Antennas sold separately
- UV Rated Cat 5 PoE cable sold separately
- Software Upgradeable to 300 Mbps Aggregate at the Ethernet
- Surge Suppressor sold separately

Canopy Part Number	• BP5830BHC15-2CC
RF band	• 5.725 GHz–5.850 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

