



## 5.4 Ghz 21 Mbps Connectorized Antenna

### BP5430BHC20-2DD Canopy 5.4 GHZ, 30 Mbps OTA, Complete Backhaul, Connectorized,

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

- RG-214 NMale to NMale Cable sold separately
- Flat Panel and Parabolic Antennas sold separately
- UV Rated Cat 5 PoE cable sold separately
- Surge Suppressor sold separately
- Software Upgradeable to 43 Mbps Aggregate/60 Mbps OTA

- Canopy Part Number** • **BP5430BHC20-2DD**
  - RF bands** • 5.470 GHz–5.725 GHz\*
  - Channel size** • 5.8 and 5.4 GHz: 12 MHz
  - Channel selection** • By Intelligent Dynamic Frequency Selection (i-DFS) or manual intervention; automatic detection on start-up and continual adaptation to avoid interference
  - Transmit power control** • Adaptive, varying between 25 dBm and -10 dBm according to modulation selected and radio path\*\*
  - System gain** • 5.8 and 5.4 GHz Integrated: Varies with modulation mode; up to 168 dB with 23.5 dBi integrated antenna\*\* Connectorized: Varies with modulation mode and antenna type\*\*
  - Receiver sensitivity** • Adaptive, varying between -96.0 dBm and -72 dBm according to modulation selected
  - Modulation** • Dynamic; 8 modes adapting between BPSK and 64 QAM
  - Error correction** • FEC, ARQ
  - Duplex scheme** • TDD ratio 50:50, 66:33; 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)\*\*\*
  - Data rates Lite** • 5.8 and 5.4 GHz Lite: Up to 21 Mbps at the Ethernet; dynamically variable with modulation range from 1.5 Mbps to 21 Mbps (aggregate)
  - Security and encryption** • Proprietary scrambling mechanism; optional AES 128 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
  - Packet prioritization** • IEEE 802.1p
  - Interface** • 10 BASE-T / 100 BASE-T (RJ-45)—auto MDI/MDIX switching
  - Latency** • Throughput Mode: Less than 7 mSec (default)  
• Latency Mode: Less than 6 mSec
  - LED indicators** • Power status, Ethernet link status and activity
  - System management** • Web Server and SNMP
  - 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" (305 mm), Height 12" (305 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  
• 90–240 VAC, 50–60 Hz / 36-60V DC  
• 55 W max
  - Operating temperature** • -40°F (-40°C) to +140°F (+60°C), including solar radiation
  - Protection and safety** • IP65/ UL60950; IEC60950; EN60950; CSA-C22.2 No. 60950
  - Regulatory** • 5.8 GHz: FCC Part 15, sub-part C 15.247, Eire ComReg 03/42, UK Approval to IR2007  
• 5.4 GHz: FCC Part 15, EN 301 893  
• 4.9 GHz: FCC Part 90
  - EMC** • USA—FCC Part 15, Class B; Europe—EN 301 489-4

**Specification subject to change without notice, check before placing orders**