Airmux-400P

ODU/F58F/EXT

Point-to-Point Radio

Description

Airmux-400P/ODU/F58F/EXT is a carrier-class radio that belongs to the RAD Airmux-400 P Series and supports 4.9 to 5.8 GHz frequency range.

The Radio complies with FCC/IC & FCC regulations with a factory default of 5.8 GHz FCC/IC.

Airmux-400P/ODU/F58F/EXT delivers up to 250 Mbps throughput.

The radio is connectorized for external antenna (2 x N-type).

Highlights

- 250 Mbps Ethernet net throughput
- Long range - Up to 120 km / 75 miles
- Telco-grade, extremely robust in harsh conditions
- Supports intra-site and inter-site synchronization to maximize capacity
- Configurable asymmetric throughput
- Advanced OFDM & MIMO technologies for operation in nLOS/NLOS and dense radio environments

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Specifications

Configuration	
Architecture	Outdoor Unit connectorized for external antenna (2 x N-type)
PoE to ODU Interface	Outdoor CAT-5e; Maximum cable length: 100m for 10/100BaseT and 75m for 1000BaseT
Radio	
Max Capacity	250 Mbps net aggregate throughput
Range	Up to 120 km / 75 miles
Channel Bandwidth	Configurable: 5, 10, 20, 40 MHz (for the default band)
Modulation	MIMO-OFDM (BPSK/QPSK/16QAM/64QAM)
Adaptive Modulation & Coding	Supported
Automatic Channel Selection	Supported upon power up
DFS	Supported (FCC/IC)
Diversity	Supported
Spectrum Viewer	Supported
Max Tx Power	25 dBm
Duplex Technology	TDD
Error Correction	FEC k = 1/2, 2/3, 3/4, 5/6
Encryption	AES 128; FIPS 197; AES 256 optional (via Software License Key)
Support Indoor units	RAD PoE devices (Airmux-PoE/GBE/ACxx)
Uplink / Downlink Allocation	Configurable: Symmetric or Asymmetric
QoS	Packet classification to 4 priority queues according to 802.1P or Diffserv
VLAN Support	802.1Q, QinQ, 4094 VLANs
TDD Intra Site Synchronization	Supported
TDD Inter Site Synchronization	Supported through common GPS receiver per site

Supported Bands					
Band	CBW 5MHz [GHz]	CBW 10MHz [GHz]	CBW 20MHz [GHz]	CBW 40MHz [GHz]	Radio Compliance
4.9 GHz FCC/IC	4.9425-4.9875	4.940-4.990	4.940-4.990	-	FCC 47CFR Part 90 Subpart Y; IC RSS-111
5.2 GHz FCC/IC	-	-	5.255-5.340	5.255-5.345	FCC 47CFR Part 15.407; IC RSS-210
5.4 GHz FCC/IC	-	-	5.480-5.715	5.480-5.715	FCC 47CFR Part 15.407; IC RSS-210
5.8 GHz FCC/IC (default)	5.7275-5.8475	5.730-5.845	5.730-5.845	5.730-5.845	FCC 47CFR Part 15.247; IC RSS-210
5.175-5.245 GHz FCC	5.1725-5.2475	5.170-5.250	5.170-5.250	5.170-5.250	FCC 47CFR Part 15.407

Mechanical	
ODU Dimensions	28(w) x 19.5(h) x 8(d) cm
ODU Weight	2.4 kg / 5.29 lbs
Power	
Power Feeding	Power provided over ODU-IDU cable
Power Consumption	<20W
Environmental	
Operating Temperatures	-35°C to 60°C / -31°F to 140°F
Humidity	100% condensing, IP67 (totally protected against dust and against immersion up to 1m)
Safety	
FCC/IC (cTUVus)	UL 60950-1, UL 60950-22, CAN/CSA C22.2 60950-1, CAN/CSA C22.2 60950-22
ETSI	EN/IEC 60950-1, EN/IEC 60950-22
EMC	
FCC	47 CFR Class B, Part15, Subpart B
ETSI	EN 300 386, EN 301 489-1, EN 301 489-4
CAN/CSA-CEI/IEC	CISPR 22-04 Class B

Ordering

Airmux-400P/ODU/F58F/EXT
Airmux-400 P ODU, connectorized for external antenna (2 x N-type), supporting multi frequency bands at 5.x GHz, factory default 5.8 GHz FCC/IC.

Order from: Cutter Networks   Phone: 727-398-5252   www.bestdatasource.com

RAD
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