

Airmux-400E

# ODU/F60W/EXT

Point-to-Point Radio (Airmux-400E/ODU/F60W/EXT)



## Description

Airmux-400 E is a premium solution for outdoor Point-to-Point (PtP) deployments

Airmux-400 E supports 5.9 to 7.1 GHz frequency range.

The Radio complies with regulations based on location.

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

## Highlights

- Up to 2.5 Gbps net aggregated throughput
- Long range - Up to 120 km / 75 miles
- Exceptional short and constant latency
- Advanced MIMO, OFDM and Diversity technologies
- Robust and reliable operation in harsh conditions, extreme temperatures and non-line-of-sight scenarios
- Ease of operation and maintenance
- Built-in GPS
- IP67 compliant
- Channel bandwidth from 20 to 160MHz

## ODU/F60W/EXT

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## Specifications

Configuration					
Architecture	Outdoor Unit connectorized for external antenna (2 x N-type)				
PoE to ODU Interface E	Outdoor CAT-5e; Maximum cable length: 100m for 10/100BaseT and 75m for 1000/2500BaseT				
Data Interfaces	100/1000/2500Mbps Full Duplex RJ45 PoE, 1000Mbps Full Duplex SFP				
Radio					
Max Capacity	2.5 Gbps net aggregate throughput				
Channel Bandwidth	Configurable: 20, 40, 80, 160 MHz				
Modulation	MIMO-OFDM (BPSK/QPSK/16QAM/64QAM/256QAM/1024QAM/4096QAM)				
Adaptive Modulation & Coding	Supported				
DFS	Not Supported				
MIMO and Diversity	Supported				
Spectrum Scan	Supported (Offline)				
Max Tx Power	25 dBm per chain				
Duplex Technology	TDD				
Error Correction	FEC k = 1/2, 2/3, 3/4, 5/6				
Encryption	AES 256				
Uplink / Downlink Allocation	Configurable: Symmetric or Asymmetric				
Networking					
Layer 2	HUB Mode				
QoS	Packet classification to 8 priority queues according to 802.1P or Diffserv				
VLAN Support	Supported				
Ethernet Ring Protection	Not supported				
TDD Intra Site Synchronization	Supported via built-in GPS receiver				
ODU Management	IPv4/IPv6 dual-stack; SNMPv1, SNMPv3; HTTP/HTTPS using web browser				
RADIUS User authentication	Supported				
Monitored Hot Standby	Not supported				
Supported Bands					
Band	CBW 20MHz [GHz]	CBW 40MHz [GHz]	CBW 80MHz [GHz]	CBW 160MHz [GHz]	Radio Compliance
5.9 GHz WorldWide	5.925-6.425	5.925-6.425	5.925-6.425	5.925-6.425	Universal
5.9 GHz WorldWide (default)	5.925-7.125	5.925-7.125	5.925-7.125	5.925-7.125	Universal
5.935-6.415 GHz FCC	5.935-6.425	5.940-6.425	5.945-6.425	5.945-6.425	FCC 47CFR Part 15.407
5.935-6.415 GHz IC	5.935-6.425	5.940-6.425	5.945-6.425	5.945-6.425	ISED RSS-248
5.935-6.865 GHz FCC	5.935-6.875	5.940-6.875	5.945-6.875	5.945-6.875	FCC 47CFR Part 15.407
5.935-6.865 GHz IC	5.935-6.875	5.940-6.875	5.945-6.875	5.945-6.875	ISED RSS-248
Mechanical					
ODU Dimensions	25.8(w) x 12.5(h) x 10.7(d) cm				
ODU Weight	1.2 kg / 2.65 lbs				
Mounting Kit	Included				
Power					
Power Feeding	Power provided over ODU-IDU cable				
Power Consumption	<24W				
Network Device	802.3at Class 4 (30W)				
AC POE	RD-9921-400x				
DC POE	RD-9921-2069				
Package Content					
Package	Connectorized radio unit, pole/wall mounting kit, IP67 glands for POE and SFP ports				
Environmental					
Operating Temperatures	-40°C to 60°C / -40°F to 140°F				
Humidity	100% condensing, IP67 (totally protected against dust and against immersion in water up to 1m)				
MTBF	1,280,000 hours (Telcordia SR332 @25°C)				
Wind Resistance operational	180Km/h				
Maritime	IEC-60068-2-11 Test Ka: Salt mist.				
Safety					
US/CAN (cTUVus)	UL 62368-1:2014, UL 60950-22:2017, CAN/CSA-C22.2 NO. 62368-1-14, CAN/CSA-C22.2 No. 60950-22:17				
EU/Intl	IEC 62368-1:2014, EN 62368-1:2014/A11:2017, IEC 60950-22:2016, EN 60950-22:2017				
EMC					
FCC	47 CFR, Part15, Subpart B, Class B				
ETSI	EN 300 386, EN 301 489-1, EN 301 489-4				
Canada	CISPR 22-2010 Class B				

## Ordering



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### Airmux-400E/ODU/F60W/EXT

RAD E ODU, connectorized for external antenna (2 x N-type), supporting multi frequency bands at 6.x GHz.

\* May be limited by regulation in the specific band being used

Datasheet information can be changed by manufacturer without prior notice

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