

Airmux-400H

ODU/F54E/EXT

Point-to-Point Radio



Description

Airmux-400H/ODU/F54E/EXT is a carrier-class radio that belongs to the RAD Airmux-400H Series and supports 5.1 to 5.8 GHz frequency range.

The Radio complies with ETSI regulations with a factory default of 5.4 GHz ETSI.

Airmux-400H/ODU/F54E/EXT delivers up to 750 Mbps throughput.

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

Highlights

- 750 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

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 | 750 Mbps net aggregate throughput | | | | |
| Range | Up to 120 km / 75 miles | | | | |
| Channel Bandwidth | Configurable: 10, 20, 40, 80 MHz (for the default band) | | | | |
| Modulation | MIMO-OFDM (BPSK/QPSK/16QAM/64QAM/256QAM) | | | | |
| Adaptive Modulation, Coding & Channel BW | Supported | | | | |
| Automatic Channel Selection | Supported upon power up | | | | |
| DFS | Supported (ETSI) | | | | |
| Diversity | Supported | | | | |
| Spectrum Viewer | Supported | | | | |
| Max Tx Power | 25 dBm; max EIRP 30 dBm (for the default band) | | | | |
| Duplex Technology | TDD | | | | |
| Error Correction | FEC k = 1/2, 2/3, 3/4, 5/6 | | | | |
| Encryption | AES 128; FIPS 197 | | | | |
| 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 10MHz [GHz] | CBW 20MHz [GHz] | CBW 40MHz [GHz] | CBW 80MHz [GHz] | Radio Compliance |
| 5.3 GHz ETSI | 5.150-5.350 | 5.150-5.350 | - | - | EN 301 893 |
| 5.480-5.700 GHz ETSI (default) | 5.475-5.705 | 5.470-5.710 | 5.490-5.720 | 5.490-5.650 | EN 301 893 |
| 5.8 GHz ETSI | 5.735-5.865 | 5.735-5.865 | - | - | EN 302 502 |
| 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-400H/ODU/F54E/EXT

Airmux-400H ODU, connectorized for external antenna (2 x N-type), supporting multi frequency bands at GHz, factory default .