

Airmux-5000

# SU-Pro/F54E/25M/EMB

Subscriber Unit



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## Description

Airmux-5000/SU-Pro/F54E/25M/EMB is a PRO series Subscriber Unit (SU). The SU provides high capacity access connectivity of up to 25 Mbps net aggregate throughput.

Airmux-5000/SU-Pro/F54E/25M/EMB supports 5.4 to 5.8 GHz and complies with ETSI regulations.

The radio comes with an integrated antenna.

\* NOTE - This is pre-production item. The datasheet of the final product may vary

## Highlights

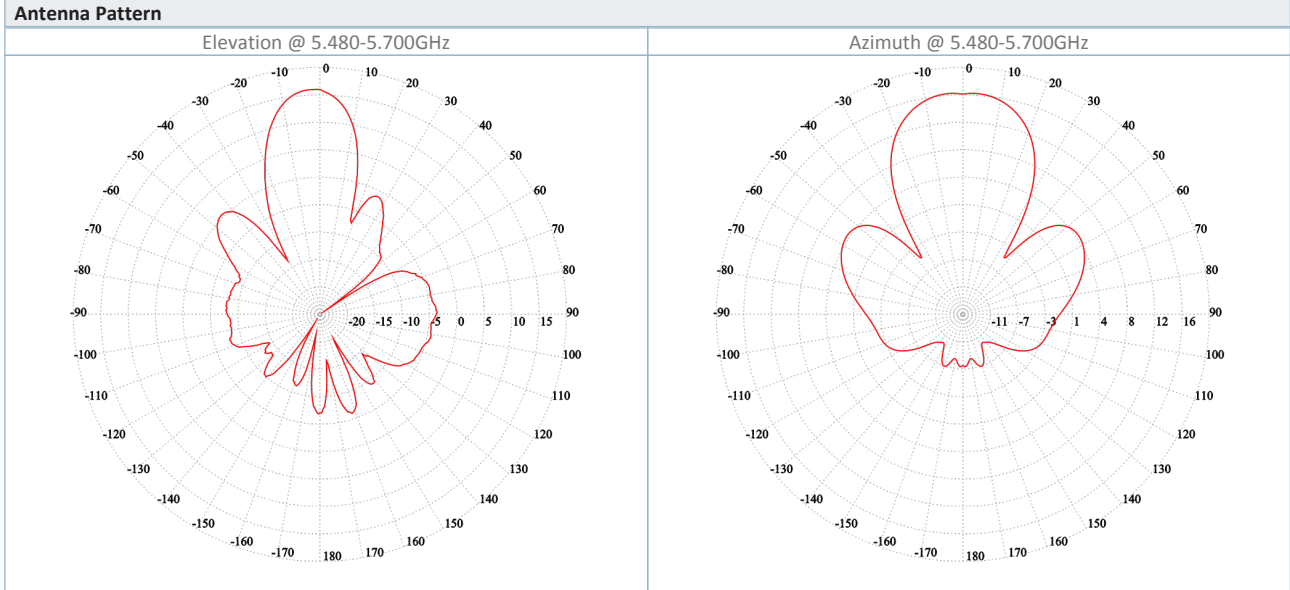
- Up to 100 Mbps net aggregated throughput
- Long range - Up to 40 km / 25 miles
- Guaranteed Service Level Agreement (SLA) or Best Effort Service support
- 16dBi integrated antenna
- 22dBi antenna when coupled with snap on TurboGain Antenna unit (for 5.3-5.8GHz)
- Short and constant latency
- Advanced MIMO, OFDM and Diversity technologies
- Robust and reliable operation in harsh conditions
- IP-66 rating (dust and water resistance)
- Unique simplified installation through Smartphone



## Specifications

<b>Configuration</b>					
Architecture	Outdoor Unit with an integrated antenna				
PoE to ODU Interface	Outdoor CAT-5e; Maximum cable length: 100m for 10/100BaseT and 75m for 1000BaseT				
<b>Radio</b>					
Max Capacity	25 Mbps net aggregate throughput; Upgradable to 200 Mbps with license key				
Range	Up to 40 km / 25 miles				
Channel Bandwidth	Configurable: 10, 20, 40, 80 MHz (for the default band); Dynamic Channel BW selection (20/40/80 MHz)				
Modulation	MIMO-OFDM (BPSK/QPSK/16QAM/64QAM/256QAM)				
Adaptive Modulation & Coding	Supported				
DFS	Supported (ETSI)				
Diversity	Supported				
Max Tx Power	24 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 device (included in the package); pinout: (+) pins 4/5, (-) pins 7/8				
Uplink / Downlink Allocation	Configurable: Symmetric or Asymmetric				
Layer 2	HUB Mode				
QoS	Packet classification to 4 priority queues according to 802.1P or Diffserv				
VLAN Support	802.1Q, QinQ, 4094 VLANs				
ODU Management	IPv4/IPv6 dual-stack; SNMP v1 and v3; HTTP using web browser				
<b>Supported Bands</b>					
Band	CBW 10MHz [GHz]	CBW 20MHz [GHz]	CBW 40MHz [GHz]	CBW 80MHz [GHz]	Radio Compliance
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
<b>Mechanical</b>					
ODU Dimensions	18.2(w) x 18.2(h) x 6.0(d) cm				
ODU Weight	0.5 kg / 1.10 lbs				
<b>Power</b>					
Power Feeding	Power provided over ODU-IDU cable				
Power Consumption	<12W				
<b>Environmental</b>					
Operating Temperatures	-35°C to 60°C / -31°F to 140°F				
<b>Safety</b>					
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				
<b>EMC</b>					
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				

Integrated Antenna	
Gain	16 dBi
VSWR	1.7:1
3 dB Azimuth Beamwidth	17 Deg. (typ)
Polarization	Dual Linear (Vertical and Horizontal)
Sidelobes Level	-12 dB(typ)
Cross Polarization	-30dB (typ)
F/B Ratio	-25 dB
Port To Port Isolation	35 dB (typ)
Lightning Protection	DC Grounded



### Ordering

**Airmux-5000/SU-Pro/F54E/25M/EMB**

SU-PRO 25 ODU, with an integrated antenna, supporting multi frequency bands at GHz, factory default .

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