



F54/FCC/CMB/EXT, F54/FCC/CMB/INT, F54/IC/CMB/EXT, F54/IC /CMB/INT

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Product Description



External antenna (EXT) configuration



Integrated (INT) antenna configuration

The F54/FCC/CMB/EXT, F54/FCC/CMB/INT, F54/IC/CMB/EXT, F54/IC /CMB/INT provides high-quality TDM and Ethernet connectivity, enabling service providers to offer the best service to their customers at a competitive price.

The F54/FCC/CMB/EXT, F54/FCC/CMB/INT, F54/IC/CMB/EXT, F54/IC /CMB/INT product features:

- Supports the new FCC 47 part 15 subpart E and RSS-210 Issue 7 regulations including DFS
- Max Tx Power of 8dBm for the INT configuration
- Max Tx Power of 9dBm for the EXT configuration
- Antenna 22dBi for INT configuration
- Antenna 22dBi minus 1dB feeder loss for EXT configuration
- Supports combo frequency bands: FCC and IC 5.4 GHz, 5.3 GHz
- Supports a full range of services, up to 4 T1/E1 + Ethernet (Maximum 18 Mbps net throughput)
- Supports Hub Site Synchronization for collocation of up to 8 units at a single site
- Compatible with all RADWIN WinLink 1000 IDUs and PoE devices
- Robust interference-mitigation for license-exempt bands
- Automatic Adaptive Rate for optimal performance in all environments



Product Specifications

Architecture	Outdoor Unit (ODU); requires antenna. PoE or IDU required for network connectivity.	
IDU to ODU Interface	Outdoor CAT5e cable; Maximum length: 100m total	
Radio		
Frequency Bands	FCC/IC 5.4 GHz	FCC/IC 5.3 GHz
Center Frequency	5.475 to 5.720 GHz	5.255 to 5.345 GHz
Center Frequency Resolution	5 MHz	2.5 MHz
Data Rate	Up to 54 Mbps air interface, 18 Mbps Ethernet Throughput	
Channel Bandwidth	Configurable: 5, 10, 20 MHz	
Duplex Technique	TDD	
Modulation	OFDM – BPSK/QPSK/16QAM/64QAM	
Tx Power for INT configuration	Max 8 dBm	
Tx Power for EXT configuration	Max 9 dBm	
Received Dynamic Range	>60dB	
Error Correction	FEC k=1/2, 2/3, 3/4	
Management		
Protocol	SNMP based	
Network Management	SNMPc based	
Upgrade Capabilities	Local and remote 'over the air' software upgrade	
Mechanics		
Dimensions of EXT configuration	24.5cm(H) x 13.5cm(W) x 4.0cm(D)	
Dimensions of INT configuration	30.5cm(H) x 30.5cm(W) x 5.8cm(D)	
Weight of EXT configuration	1.0kg/2.2lbs	
Weight of INT configuration	1.5kg/3.3lbs	
Power Feeding	From IDU or PoE device	
Power Consumption	< 10W	
Mounting	Pole and Wall	
Environmental		
Outdoor Unit Enclosure	All weather case	
ODU Operating Temperatures	-35°C to +60°C	
Humidity outdoor unit	Up to 100% non-condensing	
Regulation		
FCC	47CFR Part 15, Subpart E	
IC	RSS-210 Issue 7	
Safety		
UL	60950 (Third Edition)	
EN	60950-1 (2001), IEC 60950-1 (2001)	
CAN/CSA	C22.2 No. 60950	
EMC		
FCC	CFR47 Class B, Part15, Subpart B	
CAN/CSA-CEI/IEC	CISPR 22-02	
EN	300 386 V1.3.2; 301 489-4 V1.3.1; 301 489-1 V1.4.1	
AS/NZS	CISPR 22, CISPR 22:2002, CISPR 22:1997	
Environmental		
ETSI	IEC 60721-3-4 Class 4M5 IP67	