

FALCON III RF-7800W

High Capacity LOS radios with up to 430 Mbps of throughput

Ruggedized for harsh conditions, the L3Harris RF-7800W provides robust wireless broadband connectivity for fixed, at the halt, and on the move operations in vehicular, maritime and airborne environments. This lightweight, rapid-deployment solution is available as either a standalone radio or with an integrated 5-watt power amplifier.

GENERAL	
Frequency Range	RF-7800W-OU47 /RP47 : 4.4-5.0 GH RF-7800W-OU50 /RP50 : 4.4-5.875 GH
System Capability	LOS, optical-LOS, and non-LOS (OFDM)
Operating Modes	Fixed Frequency (PTP and PMP)
Software Architecture	Upgradeable via HTTP/HTTPS interface
Max Ethernet Rate	430 Mbps
Range	Up to 255 km clear LOS

POWER	
Power Consumption	RF-7800W-OU50x/OU47x: 25.5 W max, 802.3a PoE compliant RF-7800W-RP47x/RP50x: DC input : 100W, PoE 30W, maximum of 130W
Power Requirements	RF-7800W-OU50x/OU47x: 110-240 VAC 50/60 Hz (with PoE block or NIU) 10.5-34.5 VDC with NIU RF-7800W-RP47x/RP50x: 110-240 VAC, 50/60 Hz, 10.5-34.5 VDC, powered by RF-7800W-PS104
Power Cables	RF-7800W-OU50x/OU47x: Ethernet, up to 300 ft (91m) RF-7800W-RP47x/RP50x: Ethernet, up to 300 ft (91m) and 12069-3950-A (PA DC PoE cable)

SECURITY	
Encryption	FIPS 140-2 Level 2 with 256-bit AES data encryption, Traffic Flo Sec (TFS)
Interference Control	Enhanced Interference Mitigation (EIM), Adaptive Transmit Power Control, Adaptive Modulation

PHYSICAL	
Dimensions	RF-7800W-OU50x/OU47x: 9.91 H 10.23 W 2.53 D in (25.1 H 25.9 W 6.4 D cm) RF-7800W-RP47x/RP50x:

Falcon III® RF-78 W

2022 L3Harris Technologies, Inc. 03/2022 DS675A

Non-Export Controlled Information

L3Harris Technologies is an agile global aerospace and defense technology innovator, delivering end-to-end solutions that meet our customers' mission-critical needs. The company provides advanced defense and commercial technologies across air, land, sea, space and cyber domains.