L3HARRIS™
FAST. FORWARD.

RF-7850D-MM00X

UHF, L-Band, S-Band, 225MHz - 2.5GHz Mission Module

GENERAL	
Frequency Range	**Wideband:** (ANW2®C, S-TNW, TGW2, V-TNW, M-TNW) 225 - 2500 MHz **Narrowband:** (TNW25/75) 225 - 511.975 MHz **LOS/FSK:** (LOS/LR MELPe) 225 - 512 MHz
Channel Spacing/Bandwidth	25/75 KHz, 500 KHz, 1.2 MHz and 5 MHz
GPS	Internal GPS accepts external GPS input via the RF-7850D-V host radio
Frequency Stability	± 1 ppm

PHYSICAL	
Dimensions	6.10 H x 3.20 W x 1.61 D in

TRANSMITTER	
Power Output	3.2 W

RECEIVER	
Sensitivity	-116 dBm @ 12 dB SINAD
Squelch	Selectable: Tone or noise

POWER	
Power Input	10 V to 13 V
Power Consumption	35 W

SECURITY	
Encryption	128 and 256 bit L3Harris proprietary and AES Customer Algorithm Modification (CAM)

MODES AND WAVEFORMS	
Narrowband Waveforms	TNW25, TNW75, LOS/FSK, LR MELPe
Wideband Waveforms	S-TNW , V-TNW, TGW2, ANW2C or M-TNW
Telephony	Voice over IP (VoIP) and SIP

ENVIRONMENTAL	
Temperature	-22°F to +131°F (-30°C to +55°C)
Immersion	1 Meter
Shock and Vibration	MIL-STD 810G
Sand/Dust/Salt/Fog/Rain	MIL-STD 810G
Humidity	MIL-STD 810G

The L3Harris RF-7850D-MM00X is an attachable, software defined module that decisively expands the RF-7850D from a 2-channel radio to a multifunction 3-channel radio. The Mission Module provides seamless interoperability between forward deployed ground-based tactical units through wideband, crossbanded intel, linking three disparate networks together through a single all-informed Common Operational Picture.

INTERFACES

Power Amplifier	L3Harris 12 Pin Control
Antenna Port	TNC; 50 Ohms
Programming	USB, Ethernet

RF-7850D MISSION MODULE

RF-7850D-MM001	M-Module, UHF, L, S-Band, 225 MHz - 2.5 GHz, Green
RF-7850D-MM002	M-Module, UHF, L, S-Band, 225 MHz - 2.5 GHz, Black
RF-7850D-MM003	M-Module, UHF, L, S-Band, 225 MHz - 2.5 GHz, Tan
RF-7850D-MM004	M-Module, UHF, L, S-Band, 225 MHz - 2.5 GHz, Green, FIPS
RF-7850D-MM005	M-Module, UHF, L, S-Band, 225 MHz - 2.5 GHz, Black, FIPS
RF-7850D-MM006	M-Module, UHF, L, S-Band, 225 MHz - 2.5 GHz, Tan, FIPS

Non-Export Controlled Information

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

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