

## **L3HARRIS FALCON III®** **RF-7850A-TM001**

### Roll-On/Roll-Off Airborne System

The L3Harris RF-7850A-TM001 Roll-On/Roll-Off Airborne System delivers secure air-to-ground multiband capabilities for mission-critical airborne platforms. Its roll-on/roll-off configuration makes it easy to deploy, with all the capabilities of a fully integrated solution but none of the associated installation time or costs—including those affiliated with certification requirements.



This SWaP-optimized airborne solution easily connects with aircraft intercoms to support pilot and crew conferencing, radio monitoring and control communications.

Its independent power supply eliminates the need to use aircraft power for operation. And its industry-standard interfaces accept common accessories—including headsets, KDUs, PCs and tablets—helping to streamline input and output operations.

By offering the same level of functionality as an installed solution in a more compact package, the RF-7850A-TM001 brings wideband to the air for expanded area Command and Control, net-centric combat support, tactical ISR dissemination and other mission-critical communications.



### EASY-TO-DEPLOY AERIAL WIDEBAND NETWORKING

#### KEY BENEFITS

- > Quickly and easily deploy wideband networking and radio capabilities, without the need for full installation
- > Supports connection to aircraft intercom system and comes with independent power source and standard I/O panel
- > Two-channel capability extends operating flexibility from command centers to the tactical edge
- > Based on proven L3Harris radio technology, with full voice, data and secure interoperability

GENERAL	
Compatibility	For use with RF-7850A-MR
Power	Independent power provided by incorporated battery power system
Maintenance	Built-in voltage meter
Audio Interface	Independent radio channel access by direct connect or use of 2-channel, 2-user intercom system

PHYSICAL	
Dimensions (with covers)	22.0 W x 16.0 H x 22.0 D in (55.9 W x 40.6 H x 55.9 D cm)
Weight, without radio and batteries	50.0 lbs (22.7 kg)
Weight, with radio and 2 batteries	69.3 lbs (31.4 kg)
Color	Black

ENVIRONMENTAL	
Vibration	MIL-STD-810G: Wheeled vehicles Fixed wing Rotary wing
Altitude	25,000 feet
Temperature	MIL-STD-810G: -22°F to +140°F (-30°C to +60°C) (operational) -40°F to +185°F (-40°C to 85°C) (storage)
MIL-STD-810G	Humidity Shock Thermal shock

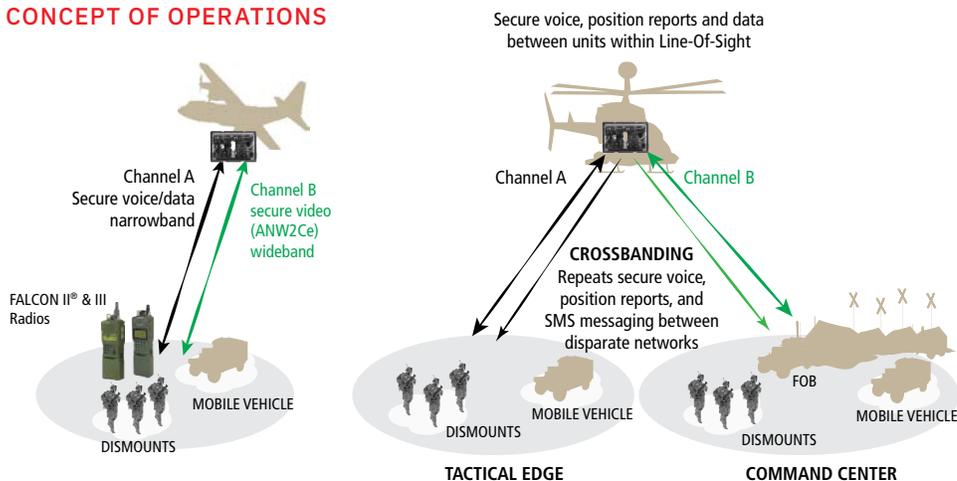
INTERFACES	
I/O Panel External Connections	RF Keypad Display Unit (KDU) Audio Sync data GPS ASCII Ethernet All interfaces provided for both Channel 1 & 2
Intercom	Aircraft hand MIC Headphone jack Power (integrated with incorporated battery power system) MIC, transmit, headphone (for both user 1 & 2)

STANDARD KIT INCLUDES	
10400-0422-02	6 – Rack Unit Hardigg Case
10488-1226-01	Pouch Case
11268-0130-01	I/O Panel Assembly
11268-0190-01	Cable Kit
11268-0411-01	Battery Box
11268-0412-01	Intercom Controller
A30-1064-005	PTT Cable Assembly
A30-1064-005	Airborne Noise Canceling Headset
A30-1105-001	Ethernet switch with POE

OPTIONAL ACCESSORIES	
12113-1000-3x	Remote Keypad Display Unit
RF-3014-HS222	Headset – dual radio
H-250 style	Headset/handset
BB-390B/U	Batteries
RF-5058-CH002	Battery chargers

TECHNICAL PUBLICATION	
System Install/Operations Manual	10515-0486-4200

## CONCEPT OF OPERATIONS



L3Harris Falcon III® RF-7850A-TM001 Roll-On/Roll-Off Airborne System

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