**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.

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.
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