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RF-7850A

In-Cockpit Radio Control Unit (RCU)

The L3Harris In-Cockpit RCU is a lightweight solution engineered to expand airborne communication capabilities and mission flexibility. With this single unit, pilots, co-pilots and crew can control multiple radios and up to eight radio channels simultaneously.

Optimized for use with the L3Harris Falcon III® RF-7850A-MR Multi-channel Airborne Radio, the RCU is airborne certified for in-cockpit integration. It is ideal for aircraft retrofits or when building entirely new systems. The unit features a full-color, NVIS-compatible graphical LCD screen with a familiar aviator radio control interface. User-friendly navigation menus, soft key selection and preset upload capabilities help simplify even the most complex airborne missions.

The RF-7850A radios include embedded L3Harris Tactical Chat messaging and GPS reporting, both of which are supported on the RCU. The RCU also supports radio fill capabilities via the USB interface on the front of the unit. Designed for easy DZUS rail mounting, the RCU can be used with a number of tactical radios and supports multiple workstation configurations.

VERSATILE AIRBORNE MULTI-CHANNEL RADIO CONTROL

KEY BENEFITS

> Compact, versatile solution for aircraft retrofit or new cockpit design

> Multi-channel radio control supporting up to eight radio channels simultaneously

> User friendly with simplified menus and standby net viewing

> Expands mission capabilities with RF-7850A Tactical Chat and GPS reporting support

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GENERAL

Part Number	12178-5100-01
Input Voltage	28 VDC
Number of Channels Controlled	Up to 8

INTERFACES

Ethernet	2 ports for 10/100/1000 Base-T
CANbus	1 port
Discretes Open / GND	6 inputs 1 zeroize input 1 zeroize output

PHYSICAL

Dimensions	3.36 H x 5.75 W x 4.5 D in (8.53 H x 14.61 W x 11.43 D cm)
Weight	1.4 lbs (0.63 kg)
Diagonal Display Dimension	4.3 in (10.92 cm)
Display	Full color graphical LCD – NVIS compatible
Brightness	0.05 – 1200 nits
Resolution	480 x 272
Contrast Ratio	900:1
Removable Storage	SD card USB port
Mounting	Standard DZUS mount rail

ENVIRONMENTAL

EMI/EMC MIL-STD-461	RE101-1 RE102-3	
MIL-STD-810G	Temperature Vibration Gunfire Shock Functional Shock Altitude Rain Temperature Operating Range	Humidity Crash Hazard Bench-Handling Shock Explosive Atmosphere Thermal Shock Acceleration Storage Range

STANDARD KIT INCLUDES

12178-5100-01	RF-7850A Radio Control Unit (RCU)
10515-0496-4200	Operations Manual

RCU ACCESSORIES

12178-5000-01	Bench-top Cable Kit
12178-5500-01	Connector/Integration Kit
10515-0496-7000	RF-7850A RCU ICD

CONTROLS

Six programmable bezel buttons
Four line select bezel buttons
Dual encoder knob and concentric knobs for menu and data entry
Volume and squelch control
Enter and clear buttons
Day/night control

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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