

RF-5800R-RC111**REMOTE CONTROL
SYSTEM WITH
HIGH SPEED INTERFACE
(HSI)****For DoD Customers**

The RF-5800R-RC 111 Remote Control System with High Speed Interface (HSI) provides full remote control capability for the FALCON® II family of manpack radios. In addition to providing remote transmit and receive audio, data, and control up to distances of 3.5 km using standard field wire, the HSI provides a RS-449/V.36 interface. This interface accommodates a wide variety of data link options when combined with COTS equipment such as multiflexers, fiber modems, and microwave systems.

The RF-5800R-RC 111 with High Speed Interface allows the connection to external data transmission mediums, including microwave, T1/E1, fiber optic modem, etc. Additionally, the volume control settings have been mapped to the volume control of the Harris manpack radios.

All of the radio functions controlled by the Keypad Display Unit (KDU) are available at the remote control unit, including Automatic Link Establishment, frequency hopping, and modem selections. The system supports the full range of data applications such as the RF-6700 series of data and imaging applications, and Tactical Chat for HF. An EOW intercom function is available between the remote and local operators.

The RF-5800R-RC 111 includes a Local Control Unit or LCU (RF-5800R-RC 102), a Remote Control Unit or RCU (RF-5800R-RC 103), two HSIs, a handset, an interconnect cable, manual and operator cards, and a carrying bag.

The remote control unit is powered by batteries or an RF-5850-PS002 Battery Eliminator. Both the RCU and LCU have visual indicators to display link status, EOW call, and error indication, or battery status.



Specifications for the RF-5800R-RC111

General

Compatible Radios FALCON II Family of Radios
Input Voltage +19.5 to +34.5 VDC

Electrical (RCU)

Power Consumption 124 mA at +24 VDC
Input Protection +/-36 VDC without damage

Electrical (HSI)

Electrical Interface RS-422
Physical Interface RS-449/V.36 equipment
Signals Supported TXD, RXD, TXC, RXC
Required Bit Error Rate <1x10⁻⁸

Environmental

Temperature Operating -40°C to +70°C (-40°F to +158°F)
Humidity RCU/LCU MIL-STD-810E (80% humidity)
Shock/Vibration MIL-STD-810F ground mobile
MIL-STD 810F loose cargo

Mechanical

Size RCU 7.8W x 8.9D x 3.2H (in.) (19.8W x 22.6D x 8.1H (cm)
LCU 3.5W x 3.5D x 3.5H (in.) (8.8W x 8.8D x 8.8H (cm)
HSI 4.4W x 3.4D x 1.15H (in.) (11.17W x 8.6D x 2.9H (cm)

Weight RCU 4.0 lbs (1.8 kg)
LCU 1.6 lbs (0.7 kg)
HSI 0.8 lbs (0.3 kg)

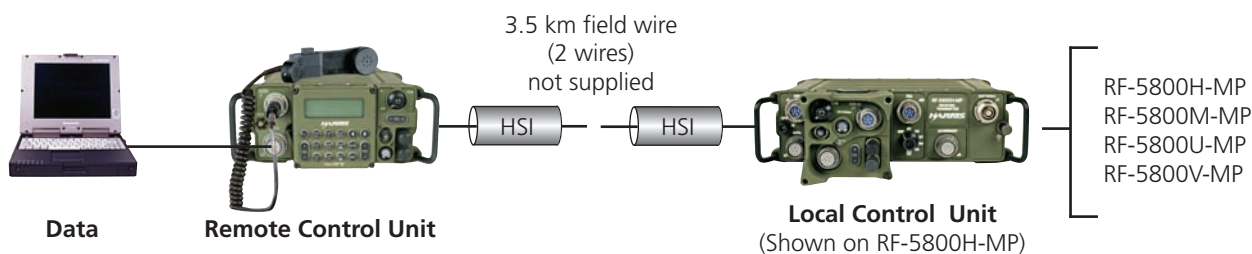
Finish RCU/LCU CARC green 383
HSI black

Spare Parts Kit RF-5800R-SK001

Upgrade Kit RF-5800R-UK211

Supported Batteries BB-590/U rechargeable NiCd
BB-390/U rechargeable NiMH
BA-5590/U lithium
1204-2100 rechargeable lithium ion handheld

Typical RF-5800R-RC511 Remote Extension Application



High Performance Waveform (HPW) capability can be added to the RF-5800R-RC111 Remote Control System with High Speed Interface (HSI) by adding the HPW Upgrade Kit. Order model number RF-5800R-UK200 Upgrade Kit.

FALCON is a registered trademark of Harris Corporation.
Specifications are subject to change without notice.