HARRIS RF-330E-CM
EMBEDDABLE MODULAR RADIO (EMR)

The Harris Embeddable Modular Radio is a small form factor, Software Defined Radio that offers the best available SWaP today with various security solutions. It provides a voice and data link with maximum flexibility, capable of a diverse set of Program of Record waveforms suitable for embedment in a wide variety of host platforms.

Anywhere the mission requires voice, data or video transmission and reception, the EMR provides flexible capabilities. The proven, leading-edge technology in this single-board, Software Defined Radio is derived from the same EMR core that is in the Harris Falcon III® AN/PRC-159(V)1 Wideband Team Radio—the NSA-certified Type 1, Suite B, non-CCI radio selected by the U.S. Army. With its advanced capabilities, the EMR offers a number of mission-critical options for airborne, maritime and ground operations. Whatever the use case, the Harris EMR provides a secure communication link that significantly expands current capabilities and mission goals.

KEY BENEFITS
- Interoperable with currently fielded DoD assets
- Software Defined Radio capable of storing multiple waveforms in one small form factor
- SWaP optimized for flexibility over a wide range of use cases and mission scenarios
- Flexible security with AES, FIPS or Type 1 capable hardware
- Superior frequency range from 225 MHz up to 2.0 GHz
- Selectable power—transmission-capable from 50 mW to 3.2 W
### GENERAL
- **Part Number**: RF-330E-CM001
- **Frequency Range**: 225 MHz to 2 GHz (Future capability up to 2.5 GHz)
- **Software Environment**: SCA V2.2.2 compliant
- **GPS**: Internal GPS, supports external GPS devices
- **Bandwidth**: 25 KHz up to 5 MHz
- **Voice**: MELP2400
- **Management Tool**: Communications Planning Application

### TRANSMITTER
- **Operating Voltage**: 50 mW up to 3.2 watts (User selectable levels)

### SECURITY
- **Encryption**: AES-256

### POWER
- **Power Input**: 8.7 -17 VDC

### ENVIRONMENTAL
- **Shock and Vibration**: Designed and tested to MIL-STD-810G
- **Temperature**: Operating: -22° F to +131° F (-30° C to +55° C)
  
### PHYSICAL
- **Dimensions**: 3.34 H x 2.42 W x 0.52 D in (8.48 H x 6.15 W x 1.32 D cm)
- **Volume**: 2.8 cubic inches (45.88 cm³)
- **Weight**: < 85 grams, standard chassis
  
### MODES AND WAVEFORMS
- **ANW2®—Black Relay** (MANET—battle-proven, deployed by all DoD services and other government entities)
  - Network throughput up to 6 Mbps
  - Network range up to 85 km
  - Channel bandwidths 1.2 MHz and 5 MHz
  - Network up to 30 nodes, 200+ guest nodes
  - Data relay up to 29 hops
  - Voice relay up to 9 hops
- **Other Waveforms**: Hardware supports additional waveforms

### INTERFACES
- **Antenna Port**: SMPM
- **Programming**: USB
- **Remote Control**: RS-232 compatible
- **Power and Data Connector**: 60-pin interface
- **External Data**: USB 2.0, RNDIS, Ethernet Model, Ethernet Control Model

### AVAILABLE ACCESSORIES AND OPTIONS
- 12006-6310-01: EMR UHF Antenna
- 12006-6320-01: EMR L-Band Antenna
- 12006-8147-01: ANW2C Black Relay
- 12194-8180-01: DDL-Tx

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**About Harris Corporation**

Harris Corporation is a leading technology innovator, solving customers’ toughest mission-critical challenges by providing solutions that connect, inform and protect. Harris supports government and commercial customers around the world.

Learn more at [harris.com](http://www.harris.com).

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