The L3Harris Embeddable Modular Radio is a small form factor, Software Defined Radio that offers the best available Size, Weight and Power (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 L3Harris 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 L3Harris EMR provides a secure communication link that significantly expands current capabilities and mission goals.

MICRO-SIZED, SECURE SOLUTION FOR MAXIMUM MISSION FLEXIBILITY

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 2.5 GHz
- Selectable power—transmission-capable from 50 mW to 3.2 W

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**GENERAL**

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<th>RT Nomenclature</th>
<th>RF-330E-CM</th>
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| 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 | MELPe |
| Management Tool | Communications Planning Application (CPA) |

**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)  
Storage: -40° F to +185° F  
(-40° C to +85° C) |
| EMI/RFI | Designed and tested to MIL-STD-461F |

**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 in (45.88 cm³) |
| Weight | < 85 grams, standard chassis  
< 65 grams, lightweight chassis |

**MODES AND WAVEFORMS**

| ANI2/3C | 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 |
| DDL | 2 MHz channel throughput 1.5 Mbps  
5 MHz channel throughput 4.5 Mbps |
| Other Waveforms | Additional waveform combinations |

**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 (EEM),  
Ethernet Control Model (ECM) |