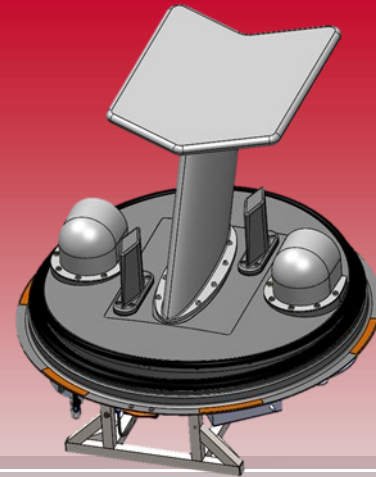




**PART NUMBER:**  
**0009A3000-30-250**

## **V/UHF LOS, UHF SATCOM, Dual L, C, S & GPS Multi-Purpose Vented Hatch System (MPVHS)**

- ▶ **BILLET ALUMINUM CONSTRUCTION**
- ▶ **NO MODIFICATION TO AIRCRAFT**
- ▶ **FIELD REPLACEABLE SEALS AND HARDWARE**
- ▶ **FAA/DoD CERTIFIED**
- ▶ **HI ANGLE UHF SATCOM**  
**CONTINUOUS LO ANGLE FREQUENCY**  
**COVERAGE, 30-512 MHz**
- ▶ **DUAL L, S, C BAND ANTENNAS**
- ▶ **L1 AND L2 GPS**



R4 Integration, Inc. (R4) has designed and built the next generation C-130 Multi-Purpose Vented Hatch System (MPVHS) for installing customized user configurations of airborne antennas or sensors. The 0009A3000-30-250 MPVHS includes a rugged multifunction V/UHF LOS, UHF SATCOM, L, S, C Band and GPS antenna designed for airborne applications. By replacing the existing center escape hatch, the MPVHS provides the customer a “Roll On/Roll Off” communications capability *without modification* to the aircraft, allowing for rapid installation to meet short notice or critically needed communication capabilities while retaining the aircraft venting capability. The MPVHS is compatible with virtually any UHF/VHF/MILSAT communication system.

R4 provides a complete “Turn Key” solution to include a Portable Airborne Communication Terminal (PACT) that provides full 30—2000 MHz LOS, BLOS, Voice/Data capability with an integrated Intercommunication System for multiple operators, aircraft interface/control, and ground station capability.

### **SPECIFICATIONS**

#### **ELECTRICAL**

##### **Frequency**

UHF Hi Angle : 240 - 400 MHz  
V/UHF Lo Angle : 30 - 512 MHz  
Dual L, C, S Band: 1610 - 1850 MHz  
2400 - 2500 MHz  
4400 - 5850 MHz  
GPS: 1564 - 1587 / 1216 - 1239 MHz

##### **Gain (typical)**

Hi Angle : +6.5 dBiC @ Zenith  
Lo Angle : -20 dBi @ 30 MHz  
-8.0 dBi @ 88 MHz  
-5.0 dBi average 118-174 MHz  
+2.0 dBi average 225 - 512 MHz  
L, C, S Band: +2.0 dBi  
GPS: +3.0 dBiC @ Zenith

##### **RF Power**

Hi Angle: 200 Watts CW  
Lo Angle: 50 Watts VHF  
200 Watts (225-512 MHz)  
L, C, S Band: 50 Watts  
GPS: 1 Watt

#### **MECHANICAL**

##### **Height Above Aircraft**

12 Inches

##### **Weight**

53 LBS

**R4 Integration, Inc.**  
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**Fort Walton Beach, FL 32548**  
**Patent # US 9,016,631 B2**  
**FAA STC # ST02495LA**

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