

# V/UHF/L-Band LOS + UHF SATCOM & GPS

# MPHS

## Multi-Purpose Hatch System

R4 Integration, Inc. (R4) has developed the next generation C-130 Multi-Purpose Hatch System (MPHS) for installing customized airborne antenna and sensor configurations. The **0009A3000-10-190 MPHS** includes a rugged multifunction V/UHF/L-Band LOS, UHF SATCOM and GPS antenna designed for airborne applications and is compatible with virtually any UHF/VHF/MILSAT/L-Band com system. By replacing the existing forward escape hatch, the MPHS provides a “Roll On/Roll Off” rapid installation, **without modification** to the aircraft to meet any short notice and critical communication needs. R4’s complete “turnkey” solution includes a Portable Airborne Communication Terminal (PACT) with full 30-2000 MHz LOS, BLOS, Voice/Data capability, an integrated intercom system for multiple operators, aircraft interface/control and ground stations.



#US 9,016,631 B2, FAA  
STC #ST02495LA and DoD certified.



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## ANTENNA FEATURES

- BILLET ALUMINUM CONSTRUCTION
- NO MODIFICATION TO AIRCRAFT
- FIELD REPLACEABLE SEALS & HARDWARE
- FAA/DoD CERTIFIED
- HI ANGLE UHF SATCOM & MUOS COVERAGE
- CONTINUOUS LO ANGLE FREQUENCY COVERAGE, 30-2000 MHz
- L1 AND L2 GPS

## SPECS

HEIGHT ABOVE AIRCRAFT: 12.6" / WEIGHT: 28 lbs.

### FREQUENCY

UHF Hi Angle: 240 - 385 MHz  
V/UHF/L-Band Lo Angle: 30 - 2000 MHz  
GPS: L1: 1564 - 1587 / L2: 1216 - 1239 MHz

### GAIN (TYP)

Hi Angle: +6.5 dBiC @ Zenith  
Lo Angle: -18.5 dBi @ 30 MHz  
-8.0 dBi @ 88 MHz  
-1.0 dBi average 118-174 MHz  
+1.0 dBi average 225 - 2000 MHz  
GPS: +4.0 dBiC @ Zenith

### RF POWER

Hi Angle: 200W CW  
Lo Angle: 50W VHF  
200W (225-2000 MHz)  
GPS: 1W

PART NUMBER:  
**0009A3000-10-190**