

# 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 **0009A3000-10-30 MPHS** includes a rugged UHF SATCOM and GPS antenna designed for airborne applications and is compatible with virtually any UHF SATCOM 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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**PART NUMBER:  
0009A3000-10-30**

## ANTENNA FEATURES

- BILLET ALUMINUM CONSTRUCTION
- NO MODIFICATION TO AIRCRAFT
- FIELD REPLACEABLE SEALS & HARDWARE
- FAA/DoD CERTIFIED
- HI ANGLE UHF SATCOM COVERAGE
- LO ANGLE FREQUENCY COVERAGE  
225 - 400 MHz
- L1 AND L2 GPS

## SPECS

HEIGHT ABOVE AIRCRAFT: 8.75"  
WEIGHT: 28 lbs.

### FREQUENCY

Hi Angle: 240 - 400 MHz  
Lo Angle: 225 - 400 MHz  
GPS: L1: 1565 - 1586 MHz  
L2: 1217 - 1238 MHz

### GAIN (TYP)

Hi Angle: +4.5 dBiC @ Zenith  
Lo Angle: +2.0 dBi @ LOS  
GPS: +4.0 dBiC @ Zenith

### RF POWER

Hi Angle: 200W CW  
Lo Angle: 200W (225 - 400 MHz)  
GPS: 1W