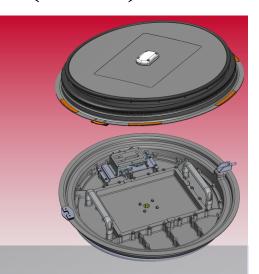


PART NUMBER: 0009A3000-10-650

GPS Repeater Multi-Purpose Hatch System (MPHS)

- ► BILLET ALUMINUM CONSTRUCTION
- ► No Modification to Aircraft
- ► FIELD REPLACEABLE SEALS AND HARDWARE
- ► FAA/DoD Certified
- ► L1 AND L2 C/A, P(Y) AND M CODE ACTIVE GPS
- ► GPS RETRANSMIT TO INTERIOR OF AIRCRAFT
- ► Enables Acquisition And Verification Of Cargo Payload Receiver's Prior To Air Drop (JPADS and Parachutist)



R4 Integration, Inc. (R4) has designed and built the next generation C-130 Multi-Purpose Hatch System (MPHS) for installing customized user configurations of airborne antennas or sensors. The 0009A3000-10-650 MPHS includes a rugged GPS antenna and GPS Repeater designed for airborne applications. By replacing the existing forward escape hatch, the MPHS provides the customer a "Roll-On/Roll-Off" GPS Repeater capability without modification to the aircraft, allowing for rapid installation to meet short notice or critically needed communication capabilities. With a GPS retransmission system installed in the crew compartment of a military aircraft and providing availability of the GPS signals in the otherwise denied environment, navigation applications benefit in the following ways:

- ► Enables acquisition and verification of cargo payload receiver's prior to air drop (JPADS),
- ► Warfighter can monitor position route, and target location prior to military free fall (MFF) insertion,
- ► Enables the Warfighter's acquisition and verification of positional data before rapid insertion via
- ▶ It ensures accurate fix on target location during dismount,
- ► Wirelessly enables encrypted SOF communications equipment during transport,
- ► Enables aircraft modularity from mission to mission The

SPECIFICATIONS	
ELECTRICAL	
Frequency	L1: 1575.42 ± 12 MHz L2: 1227.60 ± 12 MHz
Gain (typical)	GPS +33 dB LNA
RF Power In	GPS: 1 Watt
RF Power Out	-85 dBm to -65 dBm (Adjustable Output Range 20 dB)
Electrical Power	28 VDC @ .5 Amp
MECHANICAL	
Height Above Aircraft	.75 Inches
Weight	19 LBS

https://r4-integration.com

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