FLEXIBILITY FOR MULTIPLE MISSIONS

One aircraft rapidly reconfigured for different missions and the ability to adapt quickly to changing technology

Rapid Aircraft Payload Deployment System (RAPDS) is L3Harris’ patented next-generation aircraft design and open architecture that enables a wide range of missions from a single aircraft. RAPDS’ modular payload, interior and hardpoints design adapts quickly to various mission configurations between sorties in a matter of hours. The RAPDS FAA supplemental type certificates (STCs) cover a wide range of sensor payloads and aircraft configurations. New sensor payloads are integrated with minimal new design efforts while maintaining FAA certifications.

KEY FEATURES

> Supports payloads with dissimilar aerodynamic and inertial loads
> Support for SIGINT, EO/IR, RADAR, SAR, FOPEN under-fairing, airstream-rated, large mass and carry-on sensor types
> Distributed power, networks, ICS, GPS and other interfaces
> Plug-and-play sensor integration
> Roll-on/roll-off (RORO) operator workstations and equipment racks
> Communication, datalink and sensor antenna installations, exterior pods/fairings and interior options available for tailoring to customer requirements
RAPDS integrates onto multiple platforms and reconfigures in hours for the next mission

**BENEFITS**

- Accommodates new/emerging technology and a variety of sensors
- Modular fuselage disconnect panels, conduits and sidewall tie-downs for flexible payload harness installation
- Configures to mission priorities and threats with reduced downtime
- OmniBus provides convenient distribution of power, networks, audio, video, GPS and discrete I/O signals to roll-on/roll-off payload
- Maximizes budget through sharing of limited sensor quantities across fleet aircraft
- Reduces cost of upgrades
**SPYDR II WITH RAPDS**

**RAPDS INTERIOR**
- Designated areas for roll-on/roll-off (RORO) payloads: operator workstations, equipment racks, seats and pallets
- Disconnect panels for mission signals, networks and power
- Operator-controlled power distribution
- Conduits for underfloor cable routing
- Customized Omnibus – reduces/eliminates floor panel removals with payload swaps by providing connectivity to underfloor fuselage disconnects
- Flight deck situational awareness monitors and USB ports
- Soft liner and lightweight seats

**RAPDS RORO ACCESSORIES**
- Specialized mission system racks and pallets
- Ballast kits

**AVAILABLE RORO PAYLOADS**
- L3Harris RIO™ SIGINT/DF – multi-band HF/VHF/UHF/SHF
- WESCAM MX-20 and WESCAM MX-15 family of EO/IR sensors
- Operator workstation – 21” HD monitor, ICS, laptop stowage and slide-out tray, convenient power outlet
- High-capacity equipment rack

**AVAILABLE COMMON MISSION SYSTEM OPTIONS**
- IFF
- Link-16
- Tactical common datalink
- Self-protection system

**RAPDS SERVICES**
- Sensor payloads and adapters
- Sensor integration
- Compatibility assessment
- FAA approvals
- Harness design and fabrication
- Custom aerodynamic fairings and pods

**BASELINE COMMON MISSION SYSTEM**
- Mission management system – available with L3Harris Viewpoint™
- Cross-cued sensors and cursor-on-target
- Software-controlled video distribution matrix
- Independent mission computers
- Three-level security ethernet network
- Intercommunication system (ICS) – flight deck plus mission communications
- Tactical communications
  - 2x ARC-231 + 4x PRC-117
  - 2x Full-SIMOP UHF MIL-SATCOM
- 12” to 18” Ku or Ka BLOS SATCOM
- Operator consoles – dual displays
- Flight deck situational awareness
- Software-controlled dual vortex LOS video – L-/S-/C-Band R/T
- L3Harris ANW2, situational awareness, HPW
- Operator-controlled power distribution
- MX-15DiD or MX-15HDI
- Remote payload control

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L3Harris Technologies is an agile global aerospace and defense technology innovator, delivering end-to-end solutions that meet customers’ mission-critical needs. The company provides advanced defense and commercial technologies across air, land, sea, space and cyber domains.