ARINC 615 Advanced Portable Data Loader (APDL)

Advanced ARINC 615/615A Portable Data Loader (APDL)

Cyber - Secure Advanced Portable Data Loading System for Configuration Management of ARINC 615 / ARINC 615A Software Parts for Data Loading of Aircraft LRUs / LRMs in Flightline, Hangar and Heavy Aircraft Maintenance Environments

The Guardian Secure Series ™ Advanced Portable Data Loader (APDL) is a ruggedized ARINC 615 and/or ARINC 615A secure data loading solution for the harsh environment of the flightline. The ADPL is developed to meet the modern standards for software cyber security and continued airworthiness now imposed on avionic software maintenance on e-enabled Next-Generation aircraft.

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>>> Secure data loading solution for the flightline / hanger for Loadable Software Part (LSP) maintenance and configuration.
>>> Management control of avionic target developments for classic, Next-Generation and e-enabled aircraft.
>>> Eliminates drawbacks of using traditional flightline GSE Portable Data Loaders that use floppy disk media in the e-enabled and secure aircraft era.
>>> Scaleable managed solution: from single data loaders to fleets of networked data loaders located at line stations in flightline maintenance operations around the world.

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The APDL ARINC 615 / 615A Portable Data Loader is ideal for facilities that require centralized management of data loading operations. With the tool avionic target LRU/LRMs software configurations are pre-managed by the administrator(s) and available to line mechanics at a tail number (tail sign) level. The APDL provides up to the moment aircraft as-loaded configuration data in a report format. Software and configuration reporting is managed with the same security techniques as used in modern e-enabled aircraft.

Core Feature Set:

- *Scaleable ARINC Portable Data Loading Solution for all ARINC Data Loading Protocols*
- *Software Part Management and Configuration Reporting by Administrator(s)*
- *Aircraft Software Part Security and Integrity Checking*
- *Support for legacy media: Software parts stored on floppy disks, CDs and DVDs*
- *Mobile solutions support roaming by line maintenance individual users*
- *Network access at a line station, facility or fleet line station level*

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The APDL supports a wide variety of software maintenance applications in challenging aircraft maintenance environments. Wireless operation supports mobile roaming data loading operations by maintenance users who must support a variety data loading tasks throughout a diverse fleet.

Advanced ARINC 615 Portable Data Loader (APDL) Details

- Secure Flightline / Avionics Shop Data Loading Tool for ARINC 615 (-2/-3/-4) and ARINC 615A (-2/-3/-4) avionics data loading.
- Provides Avionic Software Part Management (ASPM) and Electronic Library Storage (ELS) for digital security of ARINC 665 LSAPS & LSPs and ARINC 615 / ARINC 603 legacy MSPs.
- Easy to use interface. Configure and start a data load "in four clicks or less".
- Continuous Electronic Configuration Reporting (CECR) provides immediate as-loaded configuration status.
- Secure backup and history - automatic backup of avionic software part library and as-loaded avionics target configuration history is performed continuously.
- Fully scalable solution – the APDL system can support single aircraft operations or can be scaled up to support line stations in multiple locations around the world.
- Compliant solution per requirements of standards for software cyber security and continued airworthiness for e-enabled aircraft as per DO-326 and ED-202.
- Ideal for Next-Generation avionics development, test and integration laboratories; Implements modern ARINC avionic software data loading solutions per ARINC 645 and ARINC 667.

Additional Product Features:

- Legacy support for LSP/MSPs on media: floppy disk, CD, DVD, compact flash and PCMCIA
- Optional emulators for data loading of: RS-232, avionic linear memory/compact flash
- FADEC 2 and FADEC 3 Software
- Integrity Test function
- Support for avionic software data loading of linear memory and compact flash (with optional emulators)

Advanced Portable Data Loader Users:

- Airlines, MRO / FBO Hanger and Hangar based Repair Facilities

Also:
- Development, Test and Integration Labs – Airframe Manufacturer, Avionics Supplier, Integrator
- Military Avionics Workshop Facilities (which require a high level of LRU/LRM software part security)

Order Details

ARINC 615/603 version Part No.	APDL – 433 – 378 – 002 (Airbus WRA-615-R01-101)
ARINC 615A version Part No.	APDL – 433 – 379 – 002
ARINC 615/615A version Part No.	APDL – 433 – 380 – 002 (Airbus WRA-615-R01-201)

For More Details:

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