ARINC 615/615A USB Micro PDL

ARINC 615 & 615A Data Loader Interface for Tablets & PCs

The AIT Micro Portable Data Loader (AIT-uPDL) is a ruggedized, portable "intelligent cable" solution that can be used in conjunction with a USB connection to any Windows PC, Laptop, or Tablet to support ARINC 615, ARINC 615A, and ARINC 844 software data load applications. It is also supports secure data load operations and is compliant with ARINC 835 and ARINC 645. The AIT-uPDL is coupled with AIT's Data Loader web browser based "App" to provide an easy to use Data Loader solution which can be easily integrated into existing maintenance laptops or tablets. Dedicated internal mass storage (32GB and 64GB options available) allows all loadable software to reside on the AIT-uPDL. The AIT-uPDL supports ARINC 615-3/4 loads over ARINC 429 as well as ARINC 615A (-1,-2,-3) loads over Ethernet and ARINC 664. The AIT-uPDL can be connected directly to the standard ARINC 615 53-pin connector of the aircraft or adapted to other connections types with existing cable assemblies such as ARINC 615 to ARINC 603 adapter cables.
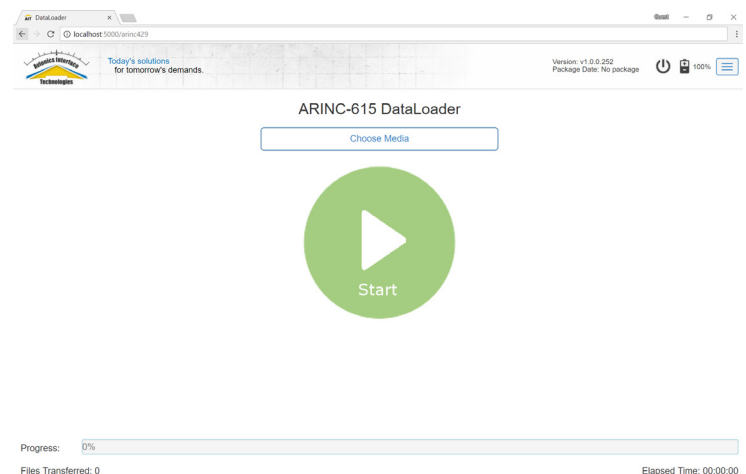
uPDL-615

Key Features

- Supports 615-3/4 Data Loader operations using ARINC 429

- Supports 615A (-1, -2, & -3) Data Load operations over Ethernet & ARINC 664 networks

- Standard ARINC 615 53-pin connector for direct connection to aircraft and compatibility with ARINC 615 to 603 adapter cables

- Optional Network Loadable Software Distribution applications available (but NOT required!)

- 32 GB (or optional 64 GB upgrade) built-in mass storage dedicated to loadable software parts

- Secure Operations (ARINC 835 & 645 Compliant)

- Verifies and Validates software parts prior to load operations

- Supports Emulated USB mass storage device loads

- Powered via USB connection (no aircraft or external power required)

- Includes Intuitive & easy to use graphical user interface (web browser based)

- Simple single button load operations with concise status indication

EASILY INTEGRATES INTO EXISTING MAINTENANCE LAPTOPS & TABLETS

The AIT-uPDL is designed for ease of use with existing flightline and aircraft maintenance laptops and tablets. AIT's browser based ARINC Data Loader application is included with the AIT-uPDL and can be installed across all maintenance laptops or host PC systems so that when the AIT-uPDL is connected (via USB), the host system automatically operates as a PDL. Additionally, the AITuPDL's integrated mass storage can be used to hold all of the loadable software parts. This eliminates the need to manage the distribution of loadable software to the host maintenance laptops. Once the AIT-uPDL is updated with the latest loadable software parts, they follow the AITuPDL and are available to all host systems to which the AIT-uPDL is connected for use.

AIT Data Loader "App"

ORDERING INFORMATION

PN: uPDL-615

Ruggedized ARINC 615 Portable Data Loader Intelligent cable with standard ARINC 615 53-pin connector and USB2.0 host system interface. Supports ARINC 615-3/4 (and ARINC 844) operations over ARINC 429. Integrated 32GB dedicated loadable software storage capacity.

OPTIONS & UPGRADES

-615A

Adds support for ARINC 615A Load operations over 10/100 Base-T Ethernet (via the ARINC 615 53-pin connector).

-A664

Adds support for ARINC 615A Load operations over ARINC 664 avionics networks (10/100 Base-T Ethernet).

-64GB

Upgrades the standard 36GB integrated mass storage to 64GB.

OPTIONAL ACCESSORIES

PDL-CASE-1170

Rugged, watertight, crushproof, dust-proof storage & transport case for AIT-uPDL, cables, and accessories. Dimensions (Outside): 11.64" X 8.34" X 3.78"

CBL-PDL-615

Standard 10-foot ARINC 615 cable for PDL (53-pin male)to aircraft connections (53-pin female).

CBL-PDL-615A

Adapts uPDL 53-pin connector to RJ-45 to support standard Ethernet (patch cable) connections to target loadable system.

CBL-615-603

Standard 1 foot ARINC 615 to ARINC 603 adapter cable. Adapts LRU end of CBL-PDL-615 to ARINC 603.

Technical Data

615/615A Loader Interface	• ARINC 615 53-pin (male) connector • ARINC 429, 3 Tx / 6Rx with DO-160G level 3 lightening & transient protection • 4 Open Drain Discretes with DO-160G level 3 lightening & transient protection • Ethernet 10/100 Base-T with DO-160G level 3 lightening & transient protection
Loadable Software Parts Storage	• 32GB Dedicated Mass Storage Device (MSD) (up to 64GB with -64GB option)
Dimensions & Weight	6.25 in X 2.0 in X 2.0 in 1.0 lbs (Approx)
Temperature & Humidity	• Operating Temp. -21C to 50C • Storage Temp. -40C to 71C • 95% RH, non-condensing
I/O Interfaces	(1) USB 2.0 socket (Note Adapter cable included for connection to standard PC USB port)
Power	Powered via USB (No aircraft power required)

www.aviftech.com/uPDL