

PDL Mk.III

ARINC 615/615A Portable Data Loader



- ARINC 615 and optional ARINC 615A data loading via standard aircraft Data Loading connector
- Robust and reliable PDL for the shop floor environment
- All kinds of media access supported: via USB (3.5" floppy disk, DVD, mass storage devices), Ethernet, WiFi, or 3G/UMTS
- Compatible with any standard Windows® laptop/PC or tablet
- USB A429 data loading unit providing 4 Tx and 8 Rx ARINC 429 channels plus 4 function discretes
- Self-powered via USB
- ARINC 615 load cable included, specific adapter cables available (e.g. A603, RJ45, FADEC, MDDU)
- Fully compliant with standard PDL adapter cables
- Certified by Airbus and recommended by Boeing, used by airlines and MROs worldwide
- Upgradeable to TechSAT GARDT® (GuARded Data loading Technology), which is compliant to the Airbus security requirements
- Interface to FLS Management Systems, e.g. eESM Lufthansa Technik





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Application Scope

TechSAT's portable data loader **PDL Mk.III** is a combination of software and hardware that turns any Windows® laptop/PC into a solution for loading aircraft software parts, such as databases and operational programs, into airborne computers according to the ARINC 615, ARINC 603, ARINC 645-1, ARINC 835, and, optionally, ARINC 615A standards.

Features

The loader is based on commercial-off-the-shelf parts and components.

The assembly's system design and the assembly itself are targeted at fulfilling ground support equipment (GSE) requirements. The core system consists of an ARINC 429 data loading unit, serving as ARINC 429 resource, and TechSAT's PDL Frontend application for Windows®, which is used as data loader utility.

The A429 data loading unit is fully powered via the USB connector of the PC/notebook. No additional power supply is needed.

The load parts can be imported to the internal media repository via any media type supported by the host computer.

The PDL Mk.III is delivered with a standard data loading connector cable used to connect to A615 LRUs.

An interface to any FLS Management tool can be provided on request.

eEnabled Software Management

"eESM" - the innovation project of Lufthansa Technik

Based on decades of experience in aircraft maintenance, LHT developed a beneficial administration software tool which supports the entire data handling process of LRU software updates.

The complete set is distributed under the brand name **eEnabled Software Management (eESM)** including TechSAT's Portable Data Loaders as the core product for data loading tasks.

PDL Sync Solution

The PDL Sync is TechSAT's lightweight solution for Electronic Distribution of Loadable Software Aircraft Parts (eliminating the need for physical media). It provides the following features:

- > Central management of software parts for entire fleets
- > Electronic distribution of software parts to PDLs
- > Definition of aircraft configurations at tail sign level
- > Tracking of data loading operations

Technical Data

Features

- USB high speed operation
- 4 ARINC 429 transmitters
- 8 ARINC 429 receivers
- 4 functional ground open discretes
- All signals galvanically isolated

Interfaces, Connectors

- USB 2.0 type B connector to connect to a Windows® laptop/PC
- D-sub 50 connector to connect the data loading cable

Power Supply

- Self-powered via USB

Physical Dimensions

- Size outside: L 125 mm, B 105 mm, H 30 mm
- Weight in total: 350 g

Operating Environment

- Temp. operating: -10 °C to 55 °C
- Temp. storage: -20 °C to 60 °C
- Humidity operating: 30% to 80% RH non-condensing

Software Support

- PDL Frontend for Windows® 7/10 32 bit/64 bit

Scope of Delivery

- A429 USB Device for Data Loading (PN 403456)
- PDL Frontend CD (PN 202115)
- A615-3 load cable (A, B, or C - see "Options" below)
- USB cable 2.0. 180 cm Typ A-B (PN 1004630)

Options

- A: A615-3 load cable 200 cm (PN 602810-020)
- B: A603 load cable, 200 cm (PN 602828-020)
- C: A615-3 load cable, 30 cm (PN 602810-003)

Extras

- FADEC load cable (PN 1015652)
- MDDU Adapter cable (PN 602751-003)
- A603 adapter cable, 10 cm (PN 602589-001)
- A615A adapter cable, 10 cm (PN 602917-001)
- A615A Data Loading for PDL Frontend (PN 202161)
- External 3.5" USB floppy drive (PN 1016518)
- External 3.5" USB DVD drive (PN 1010081)

Part Number

- 403562/PDL Mk.III