

PDL Mk.III GARDT®

ARINC 615/615A Portable Data Loader



eEnabled Software Management

The Perfect Solution designed with our
Innovation Partners
Lufthansa Technik & Corena



eESM@techsat.com

- ARINC 615 / 603 and ARINC 615A data loading via standard aircraft Data Loading Connector
- TechSAT GARDT® Technology for secure data loading according to Airbus Security Requirements for Portable Data Loader
- Compatible with any Windows® laptop / PC
- Direct data loading from USB 3.5" floppy disk, USB DVD drive, USB stick, or HDD media repository
- Import of load parts from all types of USB media or via LAN to HDD media repository
- TechSAT GARDT® (GuARded Data loading Technology) device providing 4 Tx and 8 Rx ARINC 429 channels, 4 function discretes, and Ethernet interface
- D-sub to A615 load cable and A603 load stub cable adapter included
- Fully compliant with standard PDL adapter cables
- Interface to FLS Management Systems, e.g. eESM Lufthansa Technik





PDL Mk.III GARDT®

ARINC 615/615A Portable Data Loader

Application Scope

TechSAT's portable data loader **PDL Mk.III GARDT®** is an integrated software and hardware solution for loading aircraft software parts, such as databases and operational programs, into airborne computers according to the ARINC 615, ARINC 603, and 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. TechSAT's GARDT® Unit, which is compliant to the Airbus Security Requirements for Portable Data Loader, supplies the ARINC 429 resources.

TechSAT's PDL GARDT® Frontend application for Windows® serves as data loader utility.

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

The PDL Mk.III GARDT® is delivered with a connector cable to connect it to A615 or, optionally, A603 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. In close cooperation with its partner companies Corena and TechSAT, LHT extended this software to an integrated tool set which consists of three parts, using state-of-the-art technology, forming the all-encompassing solution:

- > the eESM software configuration / distribution management tool
- > the Data Loader Adapter
- > the Data Loader Family

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.

Technical Data

Features GARDT® Unit

- Linux based single board computer
- 4 A429 transmitter channels
- 8 A429 receiver channels
- 4 function discretes
- 1 Ethernet interface
- Powered through the aircraft Data Loading Connector
- Compliant to Airbus Security Requirements for Portable Data Loader

Interfaces, Connectors

- USB 2.0 type B connector for connecting to the host computer
- D-sub 50 connector for connecting the loader cable
- Power inlet for connecting the loader cable or a power cable

Power Supply

- 110 V/400 Hz via aircraft Data Loading Connector
- 28 VDC via aircraft Data Loading Connector
- 110 V/60 Hz-400 Hz or 220 V/50 Hz via power inlet
- 10 W maximal consumption

Physical Dimensions

- Size outside: L 150 mm, B 105 mm, H 90 mm
- Weight in total: 980 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 GARDT® Frontend for Windows® XP and Windows® 7 32 bit/64 bit

Scope of Delivery

- A429 USB GARDT® Device for Data Loading (PN 403560)
- PDL GARDT® Frontend CD (PN 202132)
- A615-3 load cable, 200 cm with A/C power (PN 602849-020)
- A603 adapter cable, 10 cm (PN 602589-001)
- USB cable 2.0, 180 cm, Typ A-B (PN 1004630)

Extras

- FADEC load cable (PN 1015652)
- GARDT® power cable, US (PN 602915-020)
- GARDT® power cable, EU (PN 602916-020)
- External 3.5" USB floppy drive (PN 1016518)
- External 3.5" USB DVD drive (PN 1010081)

Part Number

- 403561/PDL Mk.III GARDT®