PMAT XS®

The Compact, Secure, Intuitive Dataloader

The PMAT XS® (Portable Maintenance Access Terminal) is a small, lightweight portable dataloader featuring a touchscreen interface styled after today's smart phones and tablets, but built to withstand the demands and rigors of the flight line.

Designed to facilitate compliance, the PMAT XS easily integrates with ground management systems to provide automatic distribution of software parts and secure application updates.

Easy Integration with Ground Distribution System

The PMAT XS dataloader accepts software parts from USB memory sticks, when used in standalone mode. It can perform ARINC 615A-4 and ARINC 615A-3 loading, and stage parts on eEnabled aircraft, such as the A350 and A220 by emulating a USB stick. The PMAT XS also easily connects with Teledyne Controls' LoadStar® Server Enterprise (LSE) network distribution software parts, which:

- Securely stores all software parts
- Automatically distributes the software parts to the PMAT XS over Ethernet (via included docking cradle), cellular or WiFi
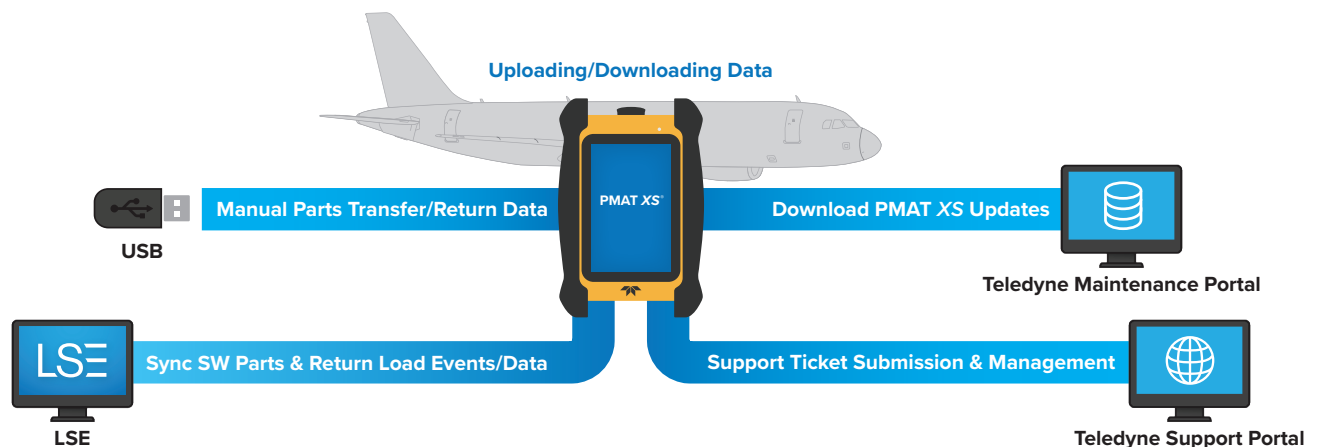
Enhanced Security

- Checks digital signatures upon import and prior to load
    - ARINC 645-1 digital certificates of signed software parts
    - ARINC 827 crates - used by LSE to protect parts in transit and at rest
    - ARINC 835 software part signatures
    - Digitally signs return data
- Only applications/bootloader approved by local security policy are allowed to run
- Hardware Security Module (TPM) for the generation of private/public keys
- Aircraft Load and Ground operating modes
    - Loader is disconnected from ground networks when loading
    - Aircraft I/O and Ground I/O cannot be active simultaneously

Aerospace Electronics
Teledyne Controls

TELEDYNE

Key Features:

- Modern, intuitive user interface
- 7" color display touchscreen
- 256GB solid state drive to store all your software parts and download data
- Ethernet, cellular and WiFi connectivity to LSE for automatic distribution of software parts
- Automatic, secure application updates from the Teledyne Maintenance Portal
- Easy access to Teledyne Support ticketing system directly from the PMAT XS
- Multiple power options to ensure the load can be performed anywhere
  - From the airplane ARINC 615 compliant Central Dataloading Connector:115VAC, 400Hz and 28VDC power
  - From the PMAT XS Battery: Loading devices such as engine FADECs on wing or ARINC 615A loadable LRUs from the LRU front panel
  - From the PMAT XS external power cable: If the battery is discharged, the PMAT XS can be powered from an external power cart

Uploading/Downloading Data

Manual Parts Transfer/Return Data — USB — PMAT *XS*

Download PMAT *XS* Updates — **Teledyne Maintenance Portal**

Sync SW Parts & Return Load Events/Data — LSE

Support Ticket Submission & Management — **Teledyne Support Portal**

PMAT *XS* Kit

- Mobile Device with Software
- Included Software Loaders
  - ARINC 615-4 loading over ARINC 429
  - ARINC 615A-3 loading over Ethernet
  - USB Stick Load Emulator
- Security/Digital Signatures
- ARINC 615/615A Loader Cable
- USB Cable
- Commercial Power Supply/Cable
- Docking Cradle (charge/connect to LSE)
- Carry Case

PMAT *XS* Options

- FADEC/EEC Load Cable (80046-1)
  - ARINC 615 loads of engine FADECs (CFM-56, GE90, CF6, Genx, GP7200)
- ARINC 615A RJ-45 Patch Cable (80080-1)
  - ARINC 615A loads of LRUs by front panel RJ-45 connector and LEAP engines
- ARINC 603 Adapter Cable (31505-4)
  - Legacy aircraft e.g. 757, 767
- PC Card Emulator Kit (PCX-EGPWS-02)
  - Supports Honeywell EGPWS MK V and MK VII loads via PC Card emulation

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Dataloading