LUMEN X

Revolutionary Programming Technology

A revolutionary programming platform delivering managed and secure programming with unrivaled performance at an extraordinary value.

Revolutionary Performance [*]

✓ Engineered for ultra fast read/write speeds greater than **160 MBytes/second with TurboBoost**

✓ **2x** faster download speed up to **50 MBytes/second**

✓ Larger image file size support up to **256GB file** and extensible up to **512GB**

Architected for managed and secure programming

✓ Best-in-class security with LumenX Data Management Software application

✓ Comprehensive Traceability Software

✓ Secures programming job from point of creation to point of manufacturing

Revolutionary Value

✓ Expertly integrated into the PSV7000 and PSV5000 for maximum socket capacity

✓ Reduce cost by up to **3x** for the lowest total cost per programmed part

✓ Global Service and Support

All roadmaps and features are subject to change without notice

Specifications

Device Support
- eMMC Flash Memory 4.41 - 5.1 LumenX® supports eMMC standard Speed, HS, HS200 and HS400 modes
- SPI NOR
- Universal Flash Storage (UFS) 2.0, 2.1 and 3.0 1Lane Gear 2 (Rate A) Extensible to 2 Lane Gear 3 (Rate A)

Performance
- Up to 160 MB/sec + read
- Up to 160 MB/sec + write
- Up to 50 MB/sec download

File Size Support
- 128 GB cache memory standard
- Upgradable to 256 GB cache memory*
- extensible up to 512 GB*

Cache memory upgrade purchased separately

Device Capacity
- 8 single socket adapter boards per LumenX programmer

Network Interface
- 1 Gigabit (1000 BAST-T)

Adapter & Socketing Technology
- Standard burn-in sockets (5,000 - 10,000 insertions per socket)
- High Insertion Count (HIC) for BGA, TSOP, QFP (250,000 insertions per socket)
- Upgrade Kit with UFS Single Socket Interface Board for UFS programming

Programming Yield
- 99.5%

Changeover
- Tool-less

LumenX Data Management Software (for standard PC interface)
- Role based user authentication to control access to create, modify and run programming jobs
- Version Control
- Read from Master
- Basic Serialization
- LumenX Help

Support Contracts
The first year of support for factory parts and labor warranty included in purchase price and can be extended via Annual Support Agreement renewal. The APS support program enables access to new & optimized algorithms, system software and LumenX Software updates and hardware support

Environmental & Regulatory Specification

Operating Temperature Range
- +10° to +30° C

Humidity
- ≤90%

Regulatory Compliance
- CE
- RoHS

System Integration

Automated Programming Systems
- PSV7000 with AH700
- PSV5000 with CH700

Maximum Socket Capacity
- 14 LumenX programmers for up to 112 sockets in PSV7000
- 5 LumenX programmers for up to 40 sockets in PSV5000

Value Added Software/Hardware
- **Automotive Performance PAK includes**
  - Confirm Input Device
  - Tape Label Generator
  - Remote Monitoring
  - Version Control
- **Bar Code Scanning**
- **Command Line Interface**
- **Serialization**
- **ConneX® Smart Programming Software**

Data Management Software