



LUMENX UFS UPGRADE KIT with VERIFYBOOST

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

Revolutionary Performance

Engineered for Maximum Performance

- Ultra-fast UFS programming performance with up to 750 MB/sec read and 160 MB/sec write
- Increase programming throughput up to 64%
- Up to 4.5x faster verify speed with Gear 3 2-Lane support for UFS devices
- Supports large files up to 256 GB and extensible to 512 GB

Revolutionary Value

Architected to support the latest device technologies - now and in the future

- Maximize capital equipment investment with field upgrade to PSV systems
- Reduce capital equipment expense with easy field upgrade to support UFS and VerifyBoost
- Decrease the total cost of programming by up to 39%
- Global Service and Support

DATA I/O CORPORATION

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DEVICE SUPPORT

- UFS 2.0, 2.1, 3.0 and 3.1 devices
2 Lane Gear 3 (Rate A)
- eMMC Flash Memory 4.41, 4.50, 4.51, 5.00, 5.10
LumenX supports eMMC standard speed, HS, HS200 and HS400 modes
- SD
- SPI NOR
- MCUs

PERFORMANCE

- Up to 750 MB/sec read with VerifyBoost*
- Up to 160 MB/sec write
- Up to 50 MB/sec download

**VerifyBoost requires a license. Standard verify performance up to 160 MB/sec without a VerifyBoost license*

FILE SIZE SUPPORT

- 128 GB cache memory standard
- Upgrade to 256 GB cache memory**
- Extensible up to 512 GB

***Cache memory upgrade purchased separately*

ENVIRONMENTAL & REGULATORY SPECIFICATION

- **Operating Temperature Range:** +10° to +30° C
- **Humidity:** ≤90%
- **Regulatory Compliance:** CE
RoHS

VALUE ADDED SOFTWARE/HARDWARE

Automotive Performance PAK:

- Confirm Input Device
- Tape Label Generator
- Remote Monitoring
- Version Control

Bar code Scanning

Command Line Interface

Serialization

ConneX Software

ADAPTER + SOCKETING TECHNOLOGY

- Standard burn-in sockets (5,000-10,000 insertions per socket)
- Medium Insertion Count (MIC) for BGA, QFN, QFP, SOP (50,000 insertions per socket)
- High Insertion Count (HIC) for BGA, TSOP, QFP (250,000 insertions per socket)

- **Network Interface:** 1 Gigabit (1000 BASE-T)
- **Programming Yield:** 99.5%
- **Changeover:** Tool-less
- **Device Capacity:** 8 single socket adapter boards per LumenX programmer

SUPPORT CONTRACTS

The first year of support for factory parts and labor warranty included in purchase price and can be extended via annual service contract. The service contract program enables access to new and optimized algorithms, system software, LumenX Software updates and hardware support.

SYSTEM INTEGRATION

- **Automated Programming Systems:** PSV7000 with AH700
PSV5000 and PSV3500 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
1 LumenX programmer for up to 8 sockets in PSV3500

LUMENX 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
- VerifyBoost License
- TurboBoost programming performance standard with LumenX 2.0