P25 KVL 5000

NEXT GENERATION ENCRYPTION KEY LOADER ENSURES SECURE INTEROPERABLE COMMUNICATIONS WITH EASE

The Motorola Solutions Key Variable Loader (KVL) 5000 allows programmers to generate, transport and load encryption keys securely and efficiently into communication products. Packaged in an easy to use one-handed design with an intuitive UI, the KVL 5000 integrates with Key Management Facility (KMF) by provisioning radios to use Over The Air Rekeying (OTAR).

Designed to meet the requirements of two-way radio programmers, the purpose-built KVL 5000 delivers a quick start and snappy response for easy and efficient key loading - without interrupting the rest of their workflow. The only keyloader that can protect keys with a hardware protected keystore, the KVL 5000 provides users with the highest level of secure programming and information protection.

KVL 5000 FEATURES

- FIPS 140-3 Level 2 keyloader
- Hardware Security Module (HSM) to protect keys
- Automatic key load
- Dead battery operation
- AES included
- Hardened out of the box

COMPATIBILITY

Compatible with existing KVL 3000/3000+/4000 keyloaders and keyloading cables.

OPTIONAL ACCESSORIES

- USB modem
- USB programming cable

KVL 5000 ENABLES

- Encrypted communications
- OTAR (KMF Managed)
- Tactical OTAR (KVL Managed)
- Store and forward
- Key creation
- Aftermarket algorithm upgrades
- Radio authentication provisioning
- Control head keyloading

DATA SHEET | PROJECT 25 KVL 5000

MOTOROLA *SOLUTIONS*

KVL 5000 PORTABLE SPECIFICATIONS

PHYSICAL CHARACTERISTICS

DIMENSIONS

Length	145 mm (5.71 in)
Width	76 mm (2.99 in)
Depth	37 mm (1.46 in)

WEIGHT

KVL with High Capacity (2925 mAh) Battery	300 g (10.6 oz)

BATTERY/CHARGER

2925 mAH Li-ion USB-Micro Cable	Up to 10 hours of typical keyloading operation
2925 mAH Li-ion Si500 Drop-In Charger	Up to 10 hours of typical keyloading operation

USER INTERFACE

Display	3.2" Touch Display Transflective, Full Color Portrait/Landscape Display Support Tempered Glass Display
Connectors/Ports	RS232/DB9, USB-micro, MX-style keyload
Remote Connection to KMF/AuC	IP Network: USB-micro to Ethernet Adapter Dial-Up: USB Modem (USB to RJ-11)

ENCRYPTION SPECIFICATIONS

Supported Systems	ASTRO 25 7.13 or later
Supported Algorithms	AES, DES-OFB, DES-XL, DVI-XL, DVP-XL, ADP
Supported Modes	ASTRO 25 Keyloading, USB Keyloading, Radio Authentication

SUPPORTED PRODUCTS

APX 900* APX N30* APX 1500* APX 2000 APX 2500 APX 3000 APX 4000 APX N50 APX 4500 APX 5000 APX 5500 APX 6000 APX N70 APX 6500 APX 7000 APX 7500 APX 8000 APX NEXT APX 8500	KMF CDEM WAVE CRYPYR CRYPTR Micro MCC 7500 VPM MCC 7500E CRYPTR PDEG

* SW AES Only

WHAT'S IN THE BOX

- KVL 5000 Unit (P25 software, AES algorithm, hardened by default)
- Battery
- Charging cable (USB-micro)
- Quick Start Guide

WHY KVL 5000?

- Only keyloader with HSM to protect keys
- Purpose built device
- One piece design
- One handed operation
- Rugged (IP54, MIL-STD)
- Multiple keyload
- Ability to create, use, and erase keys
- KMF support
- Key sharing (KVL 4000 to KVL 5000, KVL 3000+ to KVL 5000, KVL 5000 to KVL 5000)
- Quick Startup

UNSUPPORTED PRODUCTS

ASTRO Saber	XTS 4000 (ARMOR-based)
ASTRO Spectra	XTS 5000
Any ARMOR-based product	DIU
XTL 5000 (ARMOR-based)	MGEG
XTS 3000 (ARMOR-based)	RNC

REGULATORY COMPLIANCE AND APPROVALS

FIPS 140-3 Level 2	Compliant
Electromagnetic Compatibility	FCC Part 15 Class A Emission, EN55022 Class A Emission, EN50392 RF Exposure
Safety	EN60950, EN62368, UL/cUL, RoHS IP54
MIL-STD	Shock - MIL STD 810G 516.6 I Drop - MIL STD 810G 516.6 IV Vibration - MIL STD 810G 514.6 I/24

ENVIRONMENTAL

Operating Temperature	-10℃ to +50℃
Storage Temperature	-40℃ to +70℃
Ingress Protection	IP 54
ESD Protection	EN 55024
Humidity	MIL STD 810G (507.5 II/Agg)

For more information, visit motorolasolutions.com/astro-security.

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