



KALE

KALE is a ruggedized, handheld, battery powered Key Loading Device, designed to load Keys, Data and Configuration Files to various End Crypto Units (ECUs) in NATO inventory.

KALE is able to receive COMSEC material from NKMI (NATO Key Management Infrastructure) / DEKMS (DACAN Electronic Key Management System) or any other Data/Key Transfer device through EKMS 308 Interface. It supports both DS-101/DS-102 and NKMI protocols.



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User can easily operate the device via an electronic pen and touch screen. Its ruggedized design and extended operation time (thanks to spare battery) makes it an ideal solution for use in harsh environmental conditions.

It supports NATO Suite A cipher suite. Data security on the device is achieved by system architecture based on strict red/black separation. Two-factor authentication, with Crypto Ignition Key (CIK) and Password, is used to enable users with different (Administrator/Operator) privileges.

FEATURES	
General Features	<p>NATO Suite A cipher suite, for the protection of classified information up to NATO TOP SECRET level</p> <p>Secure key/data retrieval, storage and loading with NATO KMI/DEKMS connection</p> <p>Ability to receive/transfer keys and cryptographic data in different sizes</p> <p>Ability to interpret key tagging information as defined in EKMS 308</p> <p>Firmware update capability to support new ECUs</p> <p>128 GB COMSEC Material and Data storage capacity</p> <p>Easily replaceable Battery</p> <p>5" Touch screen, an electronic pen and 4+3 Keypad for user interface.</p> <p>Linux based operating system</p>
Security & Safety Features	<p>Encrypted storage of COMSEC material and data.</p> <p>Tamper detection and response mechanisms</p> <p>Recessed Emergency Erase button to zeroize sensitive data and keys whether the equipment is powered on or off.</p> <p>Two-factor user authentication based on CIK and password.</p> <p>Exportable audit logs on events and alarms.</p> <p>Secure system design</p> <ul style="list-style-type: none">• COMSEC: SECAN and Turkish National COMSEC Authority evaluation*• TEMPEST: SDIP-27/2 compliant*• EMI/EMC: MIL-STD-461G compliant*
Interfaces	<p>5" Touchscreen, with brightness control</p> <p>4+3 Keypad</p> <p>Alarm and Warning LEDs</p> <p>Key Fill Port (6-pin Audio Connector)</p> <ul style="list-style-type: none">• DS-101 RS-232/485• DS-102 <p>RJ45 Ethernet Port, for network connection</p> <p>USB 2.0 Type-A, for data transfer</p> <p>CIK slot</p>
Performance and Capacity	<p>Storage: 128 GB</p> <p>48 Wh Main Battery, 8 hours active use</p> <p>16 hours active use with spare battery</p>
Accessories	<p>Electronic Pen</p> <p>Cables</p> <p>Spare Battery</p> <p>Portable battery charge unit with universal AC input</p> <p>Equipment Case</p>
Physical Characteristics	<p>Dimensions: 186mm (H) x 92mm (W) x 55mm (D)</p> <p>Weight: 1200 g</p> <p>Operating Temperature: -10°C to +55°C</p> <p>Storing Temperature: -10°C to +55°C</p> <p>Humidity: 10% to 90%, +40°C</p>
<p>*Evaluation process is in progress</p> <p>** Due to continuing product improvements, these specifications are subject to change without notice</p>	

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