**Embeddable Security System 1200**
Programmable FIPS 140-2 Cryptographic Module

» COTS-Based “Security System on a Chip”
» FIPS 140-2 Level 2 Low SWaP Embeddable Cryptosystem
» Truly Programmable and Software Upgradeable

**SPECIFICATIONS**

**CRYPTOGRAPHIC FEATURES**
- Complete cryptographic system module
- Fully programmable
- Encrypt/Decrypt
- Message types
- Throughput
- Trusted Bypass
- Plaintext override
- PIN-based authentication (supports tactical keypads)
- Key load
- Key storage
- Hardware randomizer
- Anti-Tamper
- TRANSEC
- Data at Rest

**ENVIRONMENTAL**
Board encapsulated in hard epoxy and conformal coat

- Temperature
  - Operational: -40º to 85º C
  - Storage: -55º to 125º C
- Altitude
  - Operational: 50,000 ft
  - Storage: 70,000 ft
- EMI/EMC
  - FCC Class B
- Shock/Vibration
  - MIL-STD-810G

**SOFTWARE UPGRADEABLE FEATURES**
- Variety of Suite B algorithms and modes
- Dynamically loadable guard policies
- Over-the-air rekey
- Interface to multiple key fill device types
- Token-based access
- Extended data rates up to 100 Mbps
- Programmable external interfaces and IO; replace SPI with RMII
- RS-485 key fill
- KMI capable
- Remote zeroization

**EMBEDMENT APPLICATIONS**
- Government/Military
- Homeland Security/Border Patrol
- Law Enforcement
- Industrial
- And More

**CERTIFICATION**
FIPS 140-2 Level 2

**ORDERING INFORMATION**

**PART NUMBERS**
- ES-1200 (standard) 1141702
- ES-1200LP (low power) 1197465
- Evaluation Kit 1150313

**CONTACT**
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