



- » COTS-Based PMC Embeddable Cryptosystem
- » FIPS 140-2 Level 2 Crypto Module
- » Field-Proven in US DoD Satcom Modems such as the Viasat LinkWay<sub>S2</sub>™ modem, MD-1377, US Army Blue Force Tracking 2 network

### SPECIFICATIONS

#### CRYPTOGRAPHIC FEATURES

- » Complete Cryptographic System Module
- » Fully Programmable
- » **Encrypt/Decrypt** AES-256 CTR
- » **Message Types** Data, voice, and video
- » **Trusted Bypass** Cryptographic, In-band header, control/status
- » **Digital Signatures** ECDSA P-384
- » **Public Key Certificates** X.509
- » Plaintext Override
- » Pin-Based Authentication (supports tactical keypads)
- » Key Load
- » Key Storage
- » Anti-Tamper
- » TRANSEC
- » Data-at-Rest

#### INTERFACES

<b>Dual 10/100/1000 BASE-T Ethernet</b>	Plaintext, Ciphertext
<b>PCI Bus (PMC, PCI, or PCIe)</b>	Plaintext
<b>Asynchronous Serial Interface (ASI)</b>	Ciphertext
<b>Power Input</b>	3.3 V, 5 V

#### PERFORMANCE

<b>Throughput</b>	180 Mbps
<b>Simultaneous Active Circuits</b>	253
<b>Simultaneous Active Keys</b>	253
<b>Key Storage Capacity</b>	1,000

#### CERTIFICATION

FIPS 140-2 Level 2

#### PHYSICAL

<b>Size (W x H x D)</b>	2.9 x 5.9 x 0.6 in.; 74 x 149 x 15 mm
<b>Weight</b>	6 oz
<b>Power</b>	10 W typical

#### ENVIRONMENTAL SPECIFICATIONS

Board encapsulated in hard epoxy and conformal coat

<b>Temperature</b>	
» <b>Operational</b>	0° to 50° C
» <b>Storage</b>	-40° to 70° C
<b>Altitude</b>	
» <b>Operational</b>	50,000 ft
» <b>Storage</b>	70,000 ft
<b>EMI/EMC</b>	
FCC Class B	
<b>Shock/Vibration</b>	
MIL-STD-810G	
<b>Humidity</b>	
» <b>Operating</b>	95%, Non-Condensing
» <b>Transportation and Storage</b>	100%, Non-Condensing

#### 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
- » Extended Data Rates up to 1,000 Mbps
- » RS-485 Key Fill
- » KMI Compatibility
- » Remote Zeroization

#### ORDERING INFORMATION

##### PART NUMBERS

ES-2200	1113106
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### CONTACT

#### SALES

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