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Sypris Electronics is a world-class, integrated systems solutions provider. Our high assurance information products, advanced engineering services and complete electronic manufacturing capabilities are strategically aligned to provide our customers the best people, practices and technologies to continually exceed expectations. We consistently promote an agile, innovative culture by strategically partnering with leading-edge technology companies, agencies and universities. We are proud to develop, manufacture and integrate leading technologies into mission critical electronics systems that secure America's interest.



# CHANGE THE WAY YOU COMMUNICATE

INTRODUCING THE MOST RUGGED, INTERCHANGEABLE LINK ENCRYPTOR IN THE FIELD

The KIV-19M is a rugged yet lightweight dual channel link encryptor designed to survive a variety of battlefield conditions. This lightweight, compact device provides exceptionally high-speed cryptographic security for all classifications of digital data traffic. A full range of ancillaries and services are also available making the KIV-19M application, installation and maintenance simple, reliable and cost effective.





## KIV-19M

The new, state-of-the-art KIV-19M provides dual-channel, independently-keyed link encryption/decryption supporting multiple traffic algorithms in a single unit. It updates the highly successful KIV-19A single channel trunk encryptor, an integral component of the Link Encryptor Family (LEF) and NSA's Crypto Modernization Initiative.



## THE INDUSTRY'S TOUGHEST, SEAMLESS LINK ENCRYPTION DEVICE

The KIV-19M's enhanced programmability allows downloading of legacy and future algorithms. Depending on the algorithm, speeds up to 50Mbps can be achieved. Optional racks, power supplies and rack adaptors fulfill your integration, installations, network management and loop/terminal encryption needs. The technologically-advanced KIV-19M with added features retains its compact size and provides the durability and dependability you expect from Sypris Electronics.

### › DUAL INDEPENDENT CHANNEL CRYPTOGRAPHICALLY INTEROPERABLE

The Crypto modernized KIV-19M Link Encryptor operates with the following: **KIV-19/19A** | **KG-94/94A** | **KG-194/194A** | **KG-95-1** | **KG-84/84A/84C\*** | **KIV-7 FAMILY** | **KIV-7M\***  
**NSA TYPE 1 CERTIFIED**

### › INTERFACES

**I/O Connectors:** Ruggedized Assembly 36029190  
**Input Signals:** 9.6 Kbps to 50 Mbps / 50 mv to 6.0 V at 60 ohms balanced or 120 ohms unbalanced, MIL-STD-188-144 9.6 Kbps to 50 mbps / RS-422 / EIA-644A compatible (Low Voltage Differential)  
**Remote Control Port:** Allows users to remotely control and change settings on the unit\*\*

### › KEY MANAGEMENT

**Traditional:** DS-101, DS-102 / red fill / RS-232  
**FIREFLY:** DS-101 / fill port or KSD-64 data key  
**Benign Fill/Black Key:** DS-101 Benign Key / Benign Fill  
**Key Distribution:** SARK/OTAR

### › OPERATIONAL MODES

**Traditional:** Operates Full-Duplex + Transmit/Receive only  
**Enhanced FIREFLY/FIREFLY:** Operates over Full-Duplex channels to develop a unique encryption key without the on-line assistance of a third party  
**Algorithms:** Programmable algorithms include: Walburn, Saville, Medley (Suite A), AES (Suite B). A fifth slot is available for future algorithms

### › ENVIRONMENTAL TESTED

Tested in accordance with MIL-STD-810F

### › ENVIRONMENTAL SPECIFICATIONS

**Operating Air Temperature:** -40°C to +65°C  
**Storage Air Temperature:** -46°C to +71°C (Without batteries)  
**Relative Humidity:** 10 to 95%, non-condensing  
**Heat Load:** 51.2 BTU/HR Nominal; 78.5 BTU/HR Maximum  
**Operating Altitude:** Up to 40,000 FT  
**Storage Altitude:** Up to 40,000 FT



### › RESILIENT + POWER EFFICIENT

The KIV-19M eliminates downtime with "Plug-N-Play" technology, utilizing a ruggedized blind connection into the rack.

### › 24-MONTH WARRANTY

Extended warranty options available at the time of purpose.

### › SPECIFICATIONS

**Width:** 5.9" (14.92cm)  
**Depth:** 10.8" (27.87cm)  
**Height:** 1.7" (4.28cm)  
**Weight:** 5lbs (2.3kg) maximum



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\*During certain modes. \*\*Future Spirals