BROADBAND IP ENCRYPTION UNIT

CRYPTR 2

CRYPTR 2 Broadband IP Encryption unit is well-suited for use in mobile networks to provide reliable, end-to-end encrypted communications for FIPS 140 applications.

With critical information depending on wireless communications, customers need an end-to-end encryption solutions they can rely on. The solution needs to be cost-effective, rugged, flexible and interoperable.

When paired with Motorola's industry leading broadband networks, CRYPTR 2 is part of the secure communications solution customers need for increasingly demanding mission requirements.

CRYPTR 2 uses Advanced Encryption Standard (AES), suitable for secure applications. Making use of commercial encryption technology, CRYPTR 2 provides cost-effective network security.

Designed with mobility in mind, CRYPTR 2's low size, weight, and power requirements coupled with its ruggedness allow flexible installation and power options, and its unique QoS-aware features help maximize the utility of broadband wireless networks.

New to CRYPTR 2 is remote network monitoring and management using standard SNMPv3 tools and remote unclassified key management using Motorola's Key Management Facility.

CRYPTR 2's software upgradeability allows for flexibility as interoperability standards develop and mature.

CRYPTR 2 can accept keys from a Key Variable Loader, a Key Management Facility, and select other keyfill systems, allowing for secure, remote key updates to units in the field.

FEATURES

IKEv2
- Interoperability with IPsec based VPN Servers
- strongSwan Servers can be used as a VPN Concentrator

GUI Configurator
New Graphical User Interface (GUI) Configuration tool for more intutitve configuration

Suite B Compliant Alogrithms
- AES, Elliptic Curve Cipher Suites

FIPS 140-2 Compliant
- FIPS 140-2 Level 2

Small and Rugged
- 1.75 lbs. (800 g) 1.5 x 5.7 x 4.7 in (39 x 145 x 120 mm)
- Sealed to prevent water and dust intrusion
- Locking power cable connector

Remote Management
- SNMPv3 Management and Monitoring

Remote Rekey and Zeroize

Designed for Wireless Broadband Mobility
- 20Mb Throughput
- QoS Support

SECURITY AND PERFORMANCE SPECIFICATIONS

FIPS 140-2 Level 2	Certificate Number 1582
Tunnel Capacity	Five (5) Tunnels
Throughput	20 Mbps

ELECTRICAL AND PHYSICAL SPECIFICATIONS

Power	12VDC @ 300 mA
Interfaces	2x 10/100 RJ45 Ethernet, Key Fill, 2x RS-232 Serial, USB host/device port
Dimensions	1.5 x 5.7 x 4.7 in (39 x 145 x 120 mm)
Weight	1.75 lbs. (800 g)
Mounting Options	Rack, Desk, Mobile

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	−30°C to +60°C (−22°F to +140°F)
Storage Temperature	−40°C to +85°C (−40°F to +185°F)
Humidity	Up to 90% RH at Upper Limit Operating Temperature
Environmental Specification	MIL-STD-810F

PROTOCOLS AND ENCRYPTION ALGORITHM INTEROPERABILITY

AES256	Advanced Encryption Standard: FIPS197
Suite B IPSEC	Suite B Compliant Algorithms
IKE	Internet Key Exchange Version 2
IPv4	Internet Protocol version Four
SNMPv3	Simple Network Management Protocol version 3

ENCRYPTION KEY PROVISIONING, KEY LOADING AND KEY MANAGEMENT

	Configuration through USB port
	Support for Electronic Key Management System (EKMS) and

UNCLASSIFIED COMSEC STANDARDS COMPLIANCE

NIST FIPS140-2 Level 2	National Institute of Standards and Technology NIST FIPS140-2 FIPS140-2: "Security Requirements for Cryptographic Modules"

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