

## Broadband IP Encryption Unit

High assurance digital encryption



**Motorola's 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 end-to-end encryption solutions they can rely on. The solutions need to be cost-effective, rugged, flexible, and interoperable.

When paired with Motorola's industry leading broadband networks, Motorola 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.

- **Full Suite B Solution**

Suite B IPSEC (RFC 4869) AES, Elliptic Curve Cipher Suites

- **FIPS 140-2 Compliant**

FIPS 140 Certification Target Mid-2010

- **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**

Motorola Key Management Facility (TIA APCO Project 25 compliant)

- **Designed for Wireless Broadband Mobility**

20Mb Throughput QoS Support

MOTOROLA CRYPTR 2  
BROADBAND IP ENCRYPTION UNIT

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**SECURITY AND PERFORMANCE SPECIFICATIONS**

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FIPS 140-2 level 2	Certification Target Completion Mid 2010
Throughput	20MBps

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**ELECTRICAL AND PHYSICAL SPECIFICATIONS**

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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)

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**ENVIRONMENTAL SPECIFICATIONS**

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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

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**PROTOCOLS AND ENCRYPTION ALGORITHM INTEROPERABILITY**

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AES256	Advanced Encryption Standard: FIPS197
Suite B IPSEC	RFC 4869 – Suite B Cryptographic Suites for IPSEC
IKE	Internet Key Exchange
IPv4	Internet Protocol version Four
SNMPv3	Simple Network Management Protocol version 3

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**ENCRYPTION KEY PROVISIONING, KEY LOADING AND KEY MANAGEMENT**

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Configuration through USB port  
Encryption key provisioning and key loading using the Motorola Key Variable Loader  
Support for over the network key management with Motorola Key Management Facility (KMF)

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**UNCLASSIFIED COMSEC STANDARDS COMPLIANCE**

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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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