

XPress™ High Security Module

NIST FIPS 140-2 Certified Cryptographic Module

Cryptographic hardware module provides high-level security to products requiring NIST certified FIPS 140-2 encryption.



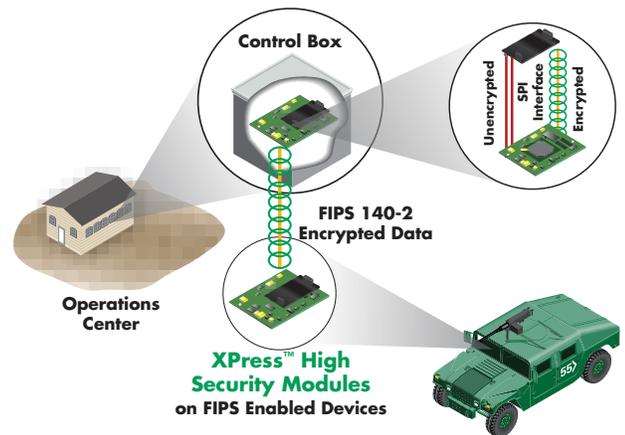
Overview

The XPress High Security Module allows customers to design and build security products that can be fast-tracked for NIST FIPS 140-2 Level 2 certification. The module carries its own certification and provides data encryption in a secure hardware platform.

The module supports a Serial Peripheral Interface (SPI) and can be readily embedded in a host microcontroller circuit. A USB control interface allows passwords and encryption keys to be set from a PC, ensuring physical control over access to the configuration. The circuit board is treated with a government-approved, tamper-evident coating to protect encryption keys from being compromised.

The industrial temperature range (-40° C to +85° C) and small size (30 mm x 50 mm x 15 mm) ensure that the XPress High Security Module can be placed in a wide variety of applications. The optional Development Kit allows new users to become familiar with the module and reduces product design time.

Application Highlight



Features/Benefits

- NIST certified FIPS 140-2 Level 2 encryption ensures secure communication
- Development Kit and pre-certified modules enable fast-track FIPS 140-2 certification
- Mini USB Type B port allows easy configuration management with a PC or serial terminal
- AES 128-, 192- or 256-bit encryption up to 5 Mbps for user-specific applications
- Two separately password-protected user modes, Crypto Officer and User, ensure secure day-to-day operation
- Tunable for low latency or optimized throughput

Related Products



Digi Passport® FIPS



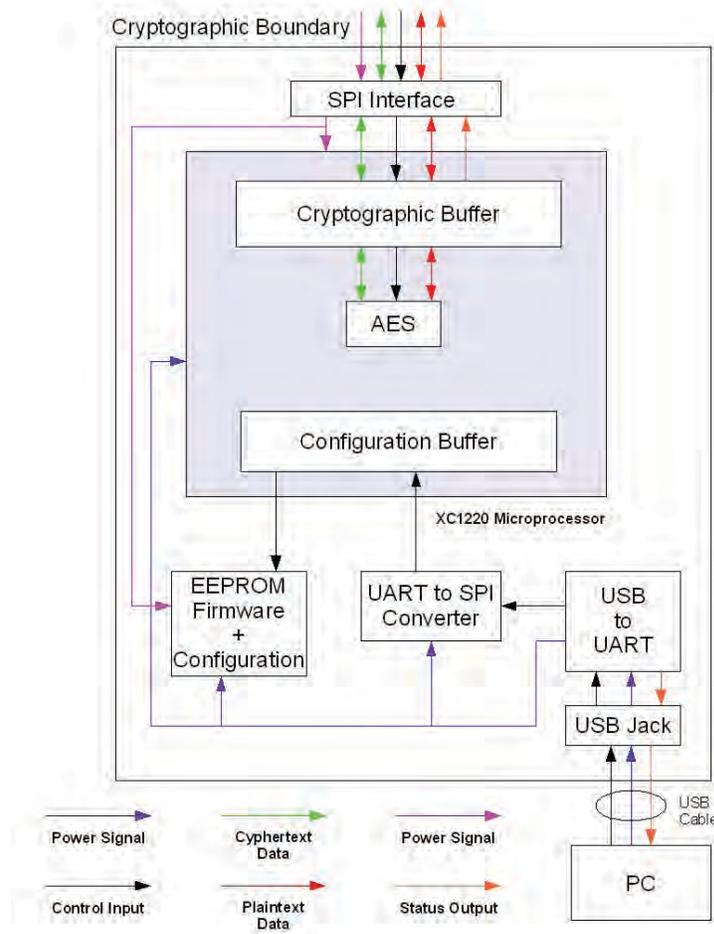
XPress™ Ethernet Bridge



Support



Features	
Encryption Throughput	5 Mbps
Certifications	NIST FIPS 140-2 Level 2, NIST FIPS 197
SPI Data Interface	2 x 5 pin header, 0.1" spacing plus 3 pin support header
SPI Clock Speed	Maximum 7MHz; minimum 530kHz
Command Interface	API Frames
Dimensions (L x W x H)	30 mm x 50 mm x 15 mm (including connectors)
Voltage Range	3.1 to 3.6 V DC
Power Consumption	45 mA @ 3.3 V DC (150 mW); 5 V DC from USB port of PC
Operating Temperature Range	-40° C to +85° C
Configuration interface	Mini USB Socket Type B



Visit www.digi.com for part numbers.

DIGI SERVICE AND SUPPORT - You can purchase with confidence knowing that Digi is here to support you with expert technical support and a two-year warranty. www.digi.com/support

Digi International
877-912-3444
952-912-3444
info@digi.com

Digi International France
+33-1-55-61-98-98
www.digi.fr

Digi International KK
+81-3-5428-0261
www.digi-intl.co.jp

Digi International (HK) Limited
+852-2833-1008
www.digi.cn



91001631
A1/710

BUY ONLINE • www.digi.com

© 2010 Digi International Inc. All rights reserved. Digi, Digi International, the Digi logo, the Wireless M2M logo, Passport, and XPress are trademarks or registered trademarks of Digi International Inc. in the United States and other countries worldwide. All other trademarks are the property of their respective owners. All information provided is subject to change without notice.

