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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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XPress™ Crypto Module

NIST FIPS 140-2 Certified Cryptographic Module

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



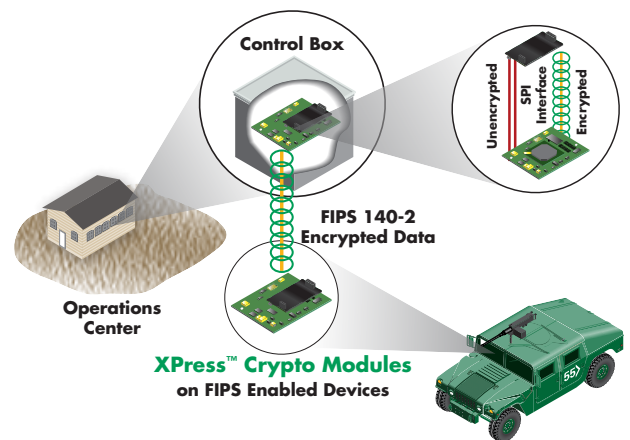
Overview

The XPress Crypto 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 Crypto 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



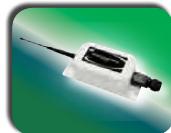
Features/Benefits

- 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
- 2 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



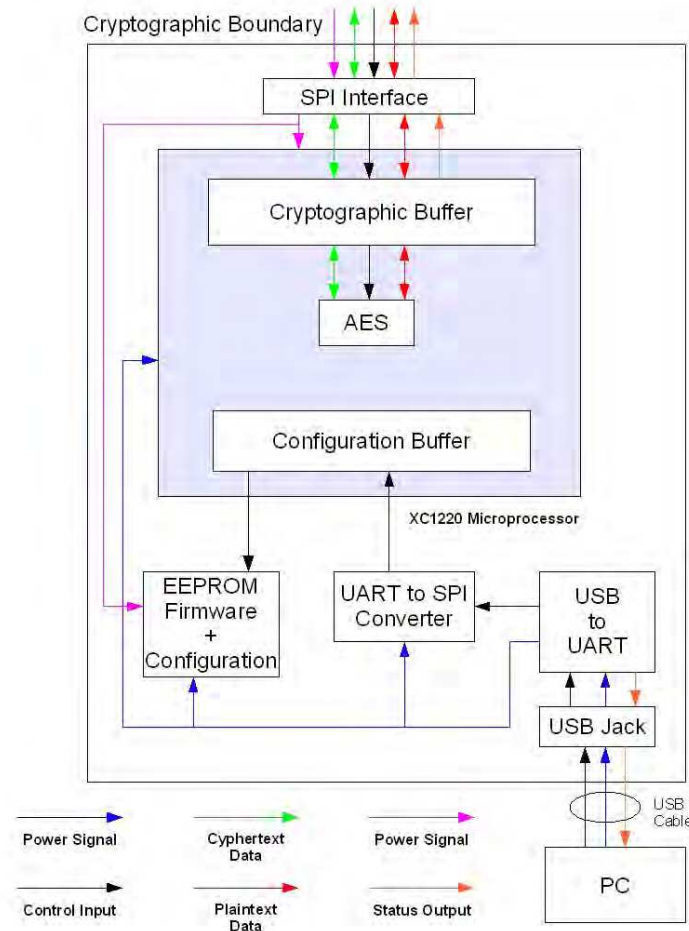
XPress™ Ethernet Bridge



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 7 MHz; minimum 530 kHz
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 VDC
Power Consumption	45 mA @ 3.3 VDC (150 mW); 5 VDC from USB port of PC
Operating Temperature Range	-40° C to +85° C
Configuration interface	Mini USB Socket Type B



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