
Curtiss-Wright Debuts Rugged Network Security Processor PMC Card

Based on the Freescale MPC8555E, the new PMC-110 CryptoNet security module features Firewall, Intrusion Detection, NAT, IPSec, and Cryptography Engines and Dual GbE (10/100/1000) ports

LEESBURG, VA – December 10, 2007 -- Curtiss-Wright Controls Embedded Computing, a leading supplier of rugged embedded boards and subsystems for the Aerospace and Defense (A&D) market has announced the PMC-110 CryptoNet Security PMC, its first rugged embedded security module. The PMC-110, a Processor PMC (PrPMC) mezzanine module, available in both air-cooled and conduction-cooled versions, is the first embedded board to feature on-board Firewall, Intrusion Detection, Network Address Translation (NAT), IPSec, and hardware-enabled cryptographic engines. The PMC-110 enables system designers to quickly and easily add advanced network security functionality to VME, VPX, CompactPCI and other host embedded boards that provide a PMC mezzanine site.

Powered by Freescale's 667 MHz MPC8555E PowerQUICC® III processor with 256 MB DDR1 with ECC, 256 MB boot flash, 2 x 10/100/1000 Gigabit Ethernet ports, 1 x RS232 serial port, COP interface, I²C interface and a 64-bit 66 MHz PCI bus.

"Curtiss-Wright is proud to be at the forefront of bringing advanced embedded network security solutions to the A&D market," said Lynn Patterson, vice president and general manager of Modular Solutions, Curtiss-Wright Controls Embedded Computing. "The CryptoNet security PMC is an ideal solution to prevent unauthorized network access to critical information for applications deployed in air, land, and sea vehicles. Securing possible entries of attacks, the PMC-110 can be used to secure a data storage network, or protect mission critical applications from hostile attacks including IP Spoofing, Denial of Service (DoS), and Trojan Horses."

Making Embedded Security Modular

The CryptoNet Security PMC enables a modular approach for creating embedded security solutions for new and legacy systems. Using the CryptoNet card, system integrators can easily add security to single board computers (SBC), digital signal processors (DSP), and carrier cards.

"The PMC-110 CryptoNet, combined with our VxWorks Board Support Package (BSP) enables system integrators to write their own 'secure' applications," said Nauman Arshad, Senior Product Marketing Manager for Curtiss-Wright's Switching Center of Excellence, "For a more fully integrated solution, a Statefull firewall, NAT with IP multicast support, VPN support, and IPSec for secure communications channels are also available."

The Statefull firewall can be used to protect against various network attacks such as Denial of Services (DoS). Cryptography, provided by the security engines on the Freescale MPC8555E processor, can be used for encryption/decryption to protect data using algorithms such as AES-256, 3DES. The CryptoNet module can also perform Authentication using MD5 and SHA.

"Freescale's MPC8555E PowerQUICC III device provides an ideal solution for applications requiring high performance and outstanding security," said Glenn Beck, Industrial segment manager for Freescale's Networking and Computing Systems Group. "The MPC8555E offloads

crypto processing to a dedicated engine, thereby allowing the CPU to address general purposing tasks. This approach delivers outstanding security without impacting performance.”

Network Security Simplified

When combined with Curtiss-Wright’s VPX6-684 FireBlade II, the CryptoNet enables a Unified Threat Management (UTM) router that provides strong perimeter defense via an ICSA certified firewall, Access Control List (ACL) filtering, NAT, Virtual Private Network (VPN) with tunneling support (IPSec/L2TP), IPv6 ESP/AH payloads, and Encryption/ Decryption/ Authentication support. The PMC-110 solution on a router comes with a complete turn-key solution that includes

Enhanced Security Software that provides VPN support with IPSec/PPTP/L2TP to protect dedicated networks, an ICSA certified statefull firewall to protect against multiple evasive attacks, NAT routing for IPv4 masquerading, and IPv6 with IPSec tunneling for secure communications channels.

PMC-110 CryptoNet Features:

- Low power, high performance Processor PMC (PrPMC) with support for cryptography.
- Key security PMC features include a 667 MHz Freescale MPC8555E processor with 256 MB of DDR1 with ECC, 256 MB of boot flash memory
- 2 x 10/100/1000 Gigabit Ethernet ports; 1 x RS232 serial port; COP interface; I2C interface
- Out-of-band management, and ability to upgrade software through a serial RS-232 interface and a 10/100 BaseTX Ethernet interface
- Software includes:
 - Wind River VxWorks® 6.x BSP
 - Complete Enhanced Security Software (roadmap)
- Enhanced Security Software (ESS) (roadmap) includes a turnkey solution for:
 - Statefull Firewall (ICSA certified)
 - Network Address Translation (NAT)
 - Access Control List (ACL) filtering
 - Encryption/Decryption/Authentication
 - VPN with secure tunneling support (IPSec/I2TP)
 - Intrusion detection and content filtering
 - Intuitive “Industry Standard” Command Line Interface (CLI), Web interface, SNMP interface and Telnet access for easy configuration and network management
- Can be used on SBCs, DSPs, or custom cards to enable secure applications
- Can be used on Curtiss-Wright’s VME-682 FireBlade I or VPX6-684 FireBlade II routers to enable complete Enhanced Security Solutions.
- Air-cooled and Conduction Cooled versions
- Industry leading technical support and life-cycle management

The PMC-110 CryptoNet is the latest addition to Curtiss-Wright’s broad family of rugged embedded boards. It joins the complementary VME-682 FireBlade I and VPX6-684 FireBlade II routers, VME-680 SwitchBlade, the 3U CompactPCI 681 SwitchBlade and the SwitchBox I and SwitchBox II fully integrated switch/router subsystems. It also complements Curtiss-Wright’s wide range of SBCs, DSPs, Graphics and Communications and IO products. For more information about Curtiss-Wright networking solutions please visit www.cwcembedded.com.

Pricing for the PMC-110 CryptoNet starts at \$2,518 USD. Availability is late Q4 2007.

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About Curtiss-Wright Controls Embedded Computing

Curtiss-Wright Controls Embedded Computing is the industry's most comprehensive and experienced single source for embedded solutions, ranging from Processing, Subsystems, Data Communication, DSP, and Video & Graphics to the most advanced board level components and fully integrated custom systems. The Embedded Computing group serves the defense, aerospace, commercial and industrial markets and is part of Curtiss-Wright Controls Inc. For more information about Curtiss-Wright visit www.cwembedded.com.

About Curtiss-Wright Controls, Inc.

Headquartered in Charlotte, North Carolina, Curtiss-Wright Controls is the motion control segment of Curtiss-Wright Corporation (NYSE: CW). With manufacturing facilities around the world, Curtiss-Wright Controls is a leading technology-based organization providing niche motion control products, subsystems and services internationally for the aerospace and defense markets. For more information, visit www.cwcontrols.com.

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