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# CryptoNet PMC-110



- ◆ Low power, High performance processor PMC with support for cryptography.
- ◆ Key security PMC features include a 667 MHz Freescale MPC8555E processor with 256KB of L2 Cache, 256 MBytes of DDR1 with ECC, 256 MBytes of Boot Flash
- ◆ 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
- ◆ Software includes:
  - 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 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 CryptoNet security PMC allows a modular approach to creating embedded security solutions for new and legacy systems. Systems integrators can populate a PMC-110 CryptoNet on Single Board Computers (SBC), Digital Signal Processors (DSP), Carrier Cards or Custom Cards to add security to their application.

The PMC-110 CryptoNet can also be coupled with a Curtiss-Wright 682/4 router to enable an all-in-one 'Unified Threat Management' (UTM) system capable of strong perimeter defense. The PMC-110 solution on a router comes with a complete turn-key solution that includes Enhanced Security Software that provides VPN (IPSec/PPTP/L2TP) to protect dedicated networks, an ICSA certified statefull firewall to protect against multiple evasive attacks, Network Address Translation (NAT) routing for IPv4 masquerading, IPv6 with IPSec tunneling for secure communications channels, and advanced standards based cryptographic functions such as encryption, decryption, authentication, and key generation.



The CryptoNet security PMC is an ideal solution to prevent unauthorized 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 in the forms of viruses, IP Spoofing, Denial of Service (DoS), and Trojans as an example.

For more information on our broad range of high-integrity computing solutions, please visit our website at [www.cwembedded.com](http://www.cwembedded.com).

# CryptoNet PMC-110

Power		Dimensions		Weight	
Typ	10 Watts	Height	149 mm (5.866 in)	SVME	< 150 g (< 0.33 lbs)
Max	12 Watts	Depth	74 mm (2.913 in)	DMV	< 160g g (< 0.35 lbs)

## Ordering Information

Part Number	Description
<b>Air-cooled I/O</b>	
SPMC-110-0000	MPC8555E@667MHz PPC processor, 64-bit 166MHz local memory bus, 256 MBytes DDR1 with ECC, 32-bit 166MHz local bus, 256 MByte Boot Flash, I/O to Pn 4 (2 Gigabit Ethernet, 1 RS232, JTAG/COP interface, I2C interface), 64-bit 66MHz PCI bus maps to Pn1, 2, 3. AC 0.
<b>Air Cooled L100</b>	
SPMC-110-1000	MPC8555E@667MHz PPC processor, 64-bit 166MHz local memory bus, 256 MBytes DDR1 with ECC, 32-bit 166MHz local bus, 256 MByte Boot Flash, I/O to Pn 4 (2 Gigabit Ethernet, 1 RS232, JTAG/COP interface, I2C interface), 64-bit 66MHz PCI bus maps to Pn1, 2, 3. AC 100.
<b>Conduction Cooled L200</b>	
DPMC-110-2000	MPC8555E@667MHz PPC processor, 64-bit 166MHz local memory bus, 256 MBytes DDR1 with ECC, 32-bit 166MHz local bus, 256 MByte Boot Flash, I/O to Pn 4 (2 Gigabit Ethernet, 1 RS232, JTAG/COP interface, I2C interface), 64-bit 66MHz PCI bus maps to Pn1, 2, 3. CC 200.
<b>Accessories</b>	
DSW-110-0000	VxWorks BSP for the PMC-110
MNT-110-0000	Yearly software Maintenance for the PMC-110 BSP
DSW-110-0001	Enhanced Security Software (ROADMAP)

## PMC-110 CryptoNet Hardware Block Diagram

