CyberCogs™
Hardware Security Modules

CCA-50 TO CCA-800
CYBERCOGS HSM PRODUCT LINE W/ PERFORMANCE FROM 50 OPS/SEC TO 800 OPS/SEC

KEY FEATURES

- 1U FIPS/NEBS compliant network appliance
- Supports one Intel® Xeon® Processor E3-1200 v5/v6 Product Family
- With Intel® C236 chipset to provide 5+ years product life cycle
- Flexible I/O design with MAX I/O® technology to support up to 2 COTS PCIe 3.0 add-in cards in a 20" depth 1U
- Two server class GbE ports
- Onboard Baseboard Management Controller for system management and IPMI control
- Front-to-back airflow and hot swap redundant fans to provide optimal thermal conditions
- Customizable to meet your requirements

SPEEDS

50 Ops/Sec to 800 Ops/Sec
RSA 2048

THE NEXT GENERATION OF HSMs

Every sector is struggling to secure their digital systems and content. As threats evolve, no organization wants to be the next to appear in a data breach headline. At this point, it is clear—sensitive IT assets and operations must be secured with a true hardware root of trust. The only question is, which Hardware Security Module (HSM) is the right one to secure your systems?

PERFORMANCE

CyberCogs' HSM product line offers top of the market performance and security. This combination provides the market leading HSM designed and built in the USA today.

QUANTUM -SAFE

Secure systems need to prepare now for the emergence of quantum computers and their ability to break current cryptographic protocols. Cyber-Cogs' HSMs are designed with crypto agility to provide to ability to add quantum-resistant capabilities as algorithms are standardized. CyberCogs' gives organizations the ability to deploy infrastructure now while future proofing their businesses.

CUSTOMIZABLE

CyberCogs' Code Resident Modules (CRMs) integrated FPGA fabric provides organizations the capability to run accelerated proprietary algorithms inside the security perimeter of CyberCogs' HSM. If your enterprise would like to move your processing into a truly secure environment, CyberCogs' HSMs are available today. CyberCogs' HSMs can we provided with Linux or the market's only EAL 6+ Common Criteria Certified Operating System ensure CyberCogs' HSM are the most secure HSMs on the market today.

CyberCogs's HSMs are designed, engineered, and manufactured in the United States.

CyberCogs™
Hardware Security Modules

DIMENSIONS (W X D X H)
· mm : 432.8 x 541.8 x 44.4
· inches : 17 x 21.3 x 1.75

MOTHERBOARD
AIC Server Board Antlia

PROCESSOR
Processor Support :
· One Intel® Xeon® Processor E3-1200 v5/v6 Product Family
· Supports CPU TDP up to 80W
*Please contact AIC Technical Support for more info/details about
  optimized CPUs and specialized system.
· Socket Type : Socket H3 (FCLGA1151)

CHIPSET
· Intel® C236 PCH
· Intel® i350-AM2

SYSTEM MEMORY
· 4 x DIMM slots support DDR4 2400/2133MHz ECC UDIMM
· Up to 64GB capacity

FRONT PANEL
· System power on/off
· System ID
· System reset
· NMI
· USB 2.0 Type A

LEDs
· Power status
· System management alert
· Drive activity
· Network activity
· System ID

DRIVE BAYS
Internal : 2 x 3.2"/2.5"

EXPANSION SLOTS (PCIE 3.0)
· 1 x8 slot (LP)
· 1 x8 slot (x4 mode)

RISER CARD (INCLUDED)
RC-PE1U03 : 2 x8 PCIe slots
System BIOS
BIOS Type :
Insyde BIOS code @ 16MB Flash EEPROM
BIOS Features :
· ACPI
· PXE
· WOL
· AC loss recovery
· IPMI KCS interface
· SMBIOS
· Serial console redirection
· BIOS Boot Specification
· BIOS Recovery Mode

ON-BOARD DEVICES
SATA : Built-in SATA RAID controller on Intel® C236 PCH
· 8 x SATA3 ports + 1 x M.2
· RAID 0, 1, 5, 10 support by Intel RSTe

IPMI
Aspeed AST2400 Advanced PCIe Graphics & Remote Management

PROCESSOR
· Baseboard Management Controller
· Intelligent Platform Interface 2.0 (IPMI 2.0)
· iKVM, Media Redirection, IPMI over LAN, Serial over LAN

NETWORK CONTROLLER
· Intel® Ethernet Controller I350-AM2 dual-port GbE PCIe v2.0
(5.0GT/s)
Optional:
Intel® Ethernet Controller I350-AM24 quad-port GbE PCIe v2.0
(5.0GT/s)
(2 rear I/O RJ45 + 2 onboard pin-headers)
· Realtek RTL8201EL for BMC dedicated management port.

GRAPHICS
Aspeed AST2400 Advanced PCIe Graphics & Remote Management
Processor
· 2D Video Graphic Adapter with PCIe bus interface
· 1920x1200@60Hz 32bpp

REAR I/O
LAN:
· 2 x GbE RJ45
· 1 x 10/100M RJ45 dedicated to BMC management
USB : 2 x USB 3.0 Type A
VGA : 1 x external DB-15 VGA port
Serial Port : 1 x external DB-9 COM port

POWER SUPPLY
300W 1+1 redundant power supply 80+ Silver
· AC INPUT : 100~240V,50-60Hz,5-3A
· DC 36~72V input power module available (BTO)

SYSTEM COOLING
3 x 40x56mm hot swap fans

SYSTEM MANAGEMENT
· IPMI 2.0
· KVM over IP
· Media redirection
· KCS (Keyboard Controller Style), IOL (IPMI Over LAN)
· SOL (Serial Over LAN) interface
· Temp, voltage and fan speed monitoring
· CPU temperature (PECI)
· System temperature
· Fan speed detection
· Smart fan speed control
· System ID / System fail indicator
· SMASH support
· Remote power on/off/reset

ENVIRONMENTAL SPECIFICATIONS
· Storage temperature : -10ºC(14ºF) ~ 60ºC(140ºF)
· Operating temperature : 0ºC(32ºF) ~ 35ºC(95ºF)
· Storage operating humidity : 5%~95% non-condensing

GROSS WEIGHT (W/PSU & RAIL)
· kgs : 22
· lbs : 48.5

PACKAGING DIMENSIONS (W X D X H)
· mm : 590 x 850 x 343
· inches : 23.2 x 33.5 x 13.5

MOUNTING
Standard : 20'' fixed rail

* All specifications are subject to change without notice.