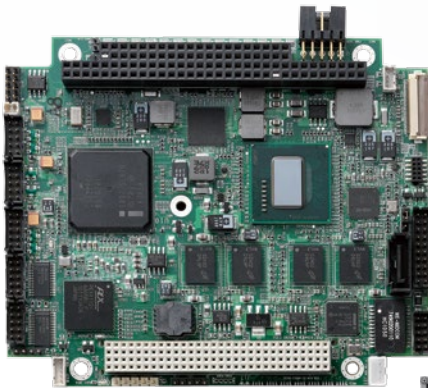


CM-720

Extreme Rugged™ PC/104-Plus Single Board Computer with Intel® Atom™ Processor E600T Series



CM = CoreModule®



Features

- Intel® Atom™ Processor E600T series from 600 MHz up to 1.6 GHz
- Up to 2 GB soldered industrial grade DDR2 SDRAM at 800 MHz
- 24-bit LVDS
- Intel® Platform Controller Hub EG20T for USB, LAN, SDIO, Serial, CAN bus and SATA
- 8GB industrial grade SSD soldered onboard
- Extreme Rugged™ operating temperature: -40°C to +85°C
- 50% thicker PCB for high vibration environments

Specifications

Core System

CPU	Intel® Core™Atom™ Processor E620T, 0.6GHz, 512KB L2 cache, 3.3W, single core Intel® Core™Atom™ Processor E660T, 1.3GHz, 512KB L2 cache, 3.6W, single core Intel® Core™Atom™ Processor E680T, 1.6GHz, 512KB L2 cache, 4.5W, single core
Memory	Up to 2GB industrial grade Single Channel DDR2 800 soldered down
Chipset	Intel® EG20T Platform Controller Hub
BIOS	AMI with ACPI 2.0
Expansion Buses	PC/104-Plus (PCI, ISA) and Single channel CAN Bus

Video

Optional VGA (via SDVO-to-VGA adapter board)	
LVDS	24-bit Single Channel, 1280x768 pixel at 60Hz with backlight

I/O Interfaces

SATA	1 device 8GB industrial grade SSD (occupies one SATA device)
USB	6 USB 2.0 ports
Serial	1 RS-232 (full modem), 3 RS-232 (TX and RX only)
Storage	Onboard 8GB industrial grade SSD

Ethernet

Intel® 82574IT Gigabit Ethernet Controller

Power

Input Power	AT mode (5V +/- 5%)
Power States	Supports S0

Mechanical and Environmental

Form Factor	PC/104-Plus
Size	116mm x 96 mm
Board Thickness	2.3 mm (0.093")
Operating Temperature	Standard: -20°C to +70°C Extreme Rugged™: -40°C to +85°C
Storage Temperature	-55°C to +85°C
Humidity	90% at +60°C
Shock	Non-operation: 50G peak-to-peak, 11ms duration, MIL-STD-202G Method 213B
Vibration	Operation: 11.95 Grms, 50-2000 Hz, each axis, MIL-STD-202G Method 214A

Note: All specifications are subject to change without further notice.

Operating Systems

Standard Support	Windows 7, Windows XP, Linux
Extended Support (BSP)	WES 2009, Win XPe, WES 7, WEC 7, WinCE 6.0, VxWorks 6.8/6.9

*Note: Available upon request or contact us for additional software support.

Ordering Information

Modules

Model Number	Description/Configuration
CM-720-R-06	PC/104-Plus Intel® Atom™ Processor E620T at 0.6 GHz with 2GB RAM and 8 GB SSD
CM-720-R-13	PC/104-Plus Intel® Atom™ Processor E660T at 1.3 GHz with 2GB RAM and 8 GB SSD
CM-720-R-16	PC/104-Plus Intel® Atom™ Processor E680T at 1.6 GHz with 2GB RAM and 8 GB SSD
CM-720-L-06	0.6GHz QuickStart Kit (R-06 SBC, 2GB onboard RAM, CM-720-TM-CU copper passive heatsink, SDVO-VGA adapter board, Cable Kit, Software)
CM-720-L-13	1.3GHz QuickStart Kit (R-13 SBC, 2GB onboard RAM, CM-720-TM-CU copper passive heatsink, SDVO-VGA adapter board, Cable Kit, Software)
CM-720-L-16	1.6GHz QuickStart Kit (R-16 SBC, 2GB onboard RAM, CM-720-TM-CU copper passive heatsink, SDVO-VGA adapter board, Cable Kit, Software)

Accessories

Model Number	Description/Configuration
SDVO-VGA-R-10	SDVO-to-VGA adapter board, 1x SDVO (input), 1x VGA box header (output) for CoreModule 720
CM-720-X-01	CM-720 cable kit (RoHS)
CM-720-TM-AL	CM-720 Aluminum Heatsink
CM-720-TM-CU	CM-720 Copper Heatsink
CM-720-TM-FAN	CM-720 Aluminum Heatsink with Fan

Recommended Configurations

Model Number	Description/Configuration
CM-720-R-06 (ETT)	CM-720-R-06, -40°C to +85°C (optional)
CM-720-R-13 (ETT)	CM-720-R-13, -40°C to +85°C (optional)
CM-720-R-16 (ETT)	CM-720-R-16, -40°C to +85°C (optional)
CM-720-R-16 (ETT), (CC)	CM-720-R-16, -40°C to +85°C (optional) coating (optional)