



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
- PC/104-Plus (ISA and PCI)
- Extended 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

DRAM – Up to 2GB industrial grade Single Channel DDR2 800 soldered down

Chipset – Intel® EG20T Platform Controller Hub

BIOS – AMI with ACPI 2.0

Video

Optional VGA (via SDVO-to-VGA adapter board)

LVDS – 24-bit Single Channel, 1280x768 pixel at 60Hz with backlight

Bus Interfaces

PC/104-Plus (PCI, ISA)

CAN Bus (single channel)

Multi I/O and Storage

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)

SDIO

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

Size – PC/104-Plus form factor 106mm x 96mm

Board Thickness – 0.093" (2.3mm thick)

Operating Temperature

- Standard: -20°C to +70°C
- Extended: -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

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

*Note: Available upon request. Contact us for more 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 |