



### 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