



Features

- Intel® Atom™ Processor E600 series from 600 MHz up to 1.6 GHz
- Up to 2 GB soldered DDR2 SDRAM at 800 MHz
- 24-bit LVDS
- Intel® Platform Controller Hub EG20T for USB, LAN, SDIO, Serial, CAN bus and SATA
- 8GB Solid State Drive onboard
- PC/104-Plus (ISA and PCI)
- Extended Temperature: -40°C to +85°C
- 50% thicker PCB for high vibration environments



Choose Ampro by ADLINK™ CoreModule® 720 for...

A power-efficient and Extreme Rugged™, Single Board Computer delivering a broad range of functionality and optimized for space-constrained applications.

Description

The Ampro by ADLINK™ CoreModule® 720 is based on the Intel® Atom™ Processor E600 series for low power consumption in space constrained, Extreme Rugged environments. A PC/104-Plus Single Board Computer with PCI and ISA bus connectivity, the CoreModule® 720 provides an integrated 8GB Solid State Drive, CAN bus, SATA, and a broad range of peripheral I/O support.

Specifications

Core System

CPU – Chip Intel® Atom™ Processor E600 Series
 – 0.6 GHz, 1.3GHz and 1.6GHz
 – Very low total power consumption 2.7 W, 3.3 W, 3.9 W
 DRAM – Up to 2GB Single Channel DDR2 600/800 soldered down
 Chipset – Intel® EG20T Platform Controller Hub

Video Interface

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

Bus Interface

PC/104-Plus (PCI, ISA)
 CAN Bus (single channel)

I/O

SATA – 1 device
 Solid State Drive, optional up to 16GB (occupies one SATA device)
 USB – 6 USB 2.0 ports
 Serial – 1 RS-232 (full modem), 3 RS-232 (TX and RX only)
 SDIO

Network Interface

Ethernet – Intel® 82574IT Gigabit Ethernet Controller

Software & Development Tools

OS Support – Linux, Windows CE 6.0 / XPe, VxWork 6.8, QNX 6.4*
 BIOS – AMI with ACPI 2.0

*Note: Available upon request. Contact us for more software support.

Power Specifications

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

Mechanical

Size – PC/104-Plus form factor 90mm x 96mm
 Board Thickness – 0.093" (2.3mm thick)

Temperature

- Standard: -20°C to +70°C
- Extended: -40°C to +85°C
- Storage: -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

Ordering Information

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 RAM, Cable Kit, Software)
CM-720-L-16	1.6GHz QuickStart Kit (R-16 SBC, 2GB RAM, Cable Kit, Software)