



### 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 and DVI support
- Intel® Platform Controller Hub EG20T for USB, LAN, SDIO, Serial, CAN bus and SATA
- Optional 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 4GB 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

DVI – 1280x1024 at 85Hz

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 – 2 devices

Solid State Drive, optional up to 16GB (occupies one SATA device)

USB – 4 USB 2.0 ports

Serial – 2 RS-232, 2 RS-232/422/485

SDIO/MMC socket

#### 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 4 GB SSD
CM-720-R-13	PC/104-Plus Intel® Atom™ Processor E660T at 1.3 GHz with 2GB RAM and 4 GB SSD
CM-720-R-16	PC/104-Plus Intel® Atom™ Processor E680T at 1.6 GHz with 2GB RAM and 4 GB SSD