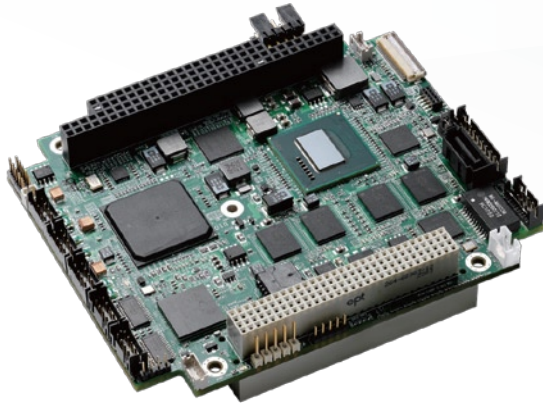


CoreModule® 720

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



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



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 E600T 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 industrial grade 8GB SSD, CAN bus, SATA, and a broad range of peripheral I/O support.

Specifications

Core System

CPU – Intel® Atom™ Processor E600T 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 industrial grade Single Channel DDR2 667/800 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

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

Network Interface

Ethernet – Intel® 82574IT Gigabit Ethernet Controller

Software & Development Tools

OS Support – Windows 7/CE6.0/XPe/WEC7/WES7, Linux, VxWorks 6.8

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-13 | 1.3GHz QuickStart Kit (R-13 SBC, 2GB RAM, Cable Kit, Software) |
| CM-720-L-16 | 1.6GHz QuickStart Kit (R-16 SBC, 2GB RAM, Cable Kit, Software) |