

Cool LiteRunner

PC/104 Single Board Computer
AMD Geode™ GX 466, 333 MHz

Features

Processor: AMD Geode™ GX 466@0.9W

128 MB soldered RAM

miniPCI slot

CompactFlash™ socket

2x 100/10 BaseT Ethernet

4x USB 1.1

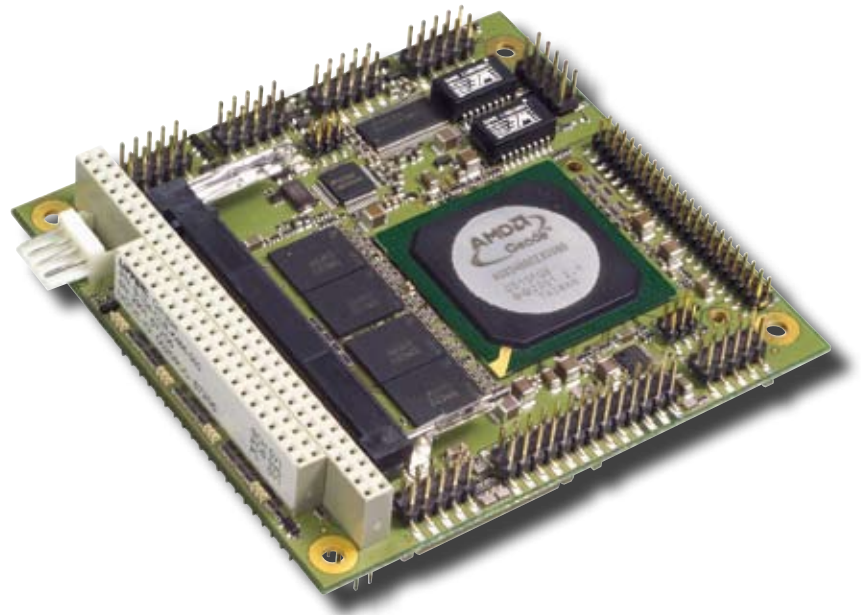
3x RS232/422/485

General purpose I/O

Power consumption: ~6.5 watts

No heatsink needed

Opt. ext. temperature range -40°C ... +85°C



More Features

- GoldCap for backup
- Flash BIOS
- RoHS compliant



The Cool LiteRunner is an affordable complete PC/104 single board computer. It is powered by an AMD Geode™ GX 466@0.9W Pentium® compatible processor running at 333 MHz. This processor is combined with the CS5535 I/O companion chip that has many standard peripherals already integrated. Together with the built-in Super I/O, the board resembles a complete PC.

The Cool LiteRunner can be expanded using the built-in miniPCI slot. In addition to WLAN cards, LiPPERT offers a line of specialized miniPCI cards; check the website for available types. Two independent LAN controllers are provided, making the Cool LiteRunner the selection of choice for managed bridges and industrial automation.

The Cool LiteRunner features an integrated graphics controller that shares its graphics memory with the system memory (UMA). It supports either VGA monitors or digital TFT panels (18 bit parallel or 24 bit LVDS), selectable via jumper or BIOS settings.

The Cool LiteRunner comes with 4 USB 1.1 ports, IDE, PS/2 keyboard and mouse, and parallel printer. Three serial ports are integrated on-board, too. Two of them can be configured by software for the RS232 or RS485 standards, the third is RS485-only. An integrated GoldCap buffers the real time clock. There are eight freely usable I/O pins for application defined signals available on a flat cable connector.

The Cool LiteRunner supports a wide range of storage devices. The ATA-66 compliant EIDE interface allows standard hard disks, CD/DVD drives or similar devices to be connected. A CompactFlash™ adapter is available for non-moving storage.

The Cool LiteRunner is equipped with 128 MByte of RAM; the chips are soldered to the circuit board, adding to its mechanical stability. Troubleshooting is made easy with supervision LEDs for power, watchdog, Ethernet and application-defined life signalization on the module. The PC/104 bus allow system expansion with many commercially available peripheral I/O boards.

LiPPERT is an independent design house and manufacturer that develops and builds special customer specific solutions. Please ask for a specific quotation.

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LiPPERT
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Cool LiteRunner

PC/104 Single Board Computer
AMD Geode™ GX 466, 333 MHz

Technical Specifications

Board Format	PC/104, 90mm x 96mm, no wings	LPT	Multi-Mode™ bi-directional Parallel Port IEEE1284 Compliant with EPP/EPC modes
Processor	AMD Geode™ GX 466@0.9W	Floppy	Yes, up to 2.88Mbyte
Speed	333 MHz	CompactFlash™	Type 2 socket
Core logic	CS5535	PCI-Bus	1 miniPCI socket (V1.0 compliant)
Super I/O	Winbond W83627HF	Digital I/O	8 general purpose I/O signals
RAM	128 MByte 64 bit DDR SDRAM, soldered down	RTC Backup	GoldCap
RAM clock	111 MHz, 222 MT/s DDR	Watchdog	Yes
Graphics	Integrated CS5535 graphics controller	Power Supply	+5V only
CRT	Analog VGA, 1600x1200x16 bpp at 85 Hz	Power Consumption	~6.5W
TFT	18 bit up to 1280x1024	Operating temperature	-20 °C ... +60 °C (standard) -40 °C ... +85 °C (optional)
LVDS	One channel, 24 bits LVDS interface	MTBF	222.066 hours at 25 °C
USB	4xUSB 1.1	Cooling	Passive, no fan necessary
Ethernet	2x100/10BaseT with NSC DP83815	Status LED	Power, Watchdog, EIDE, Ethernet and custom purposes
Serial	COM1, COM2: software selectable for RS232/RS485/RS422 COM3: RS485/RS422 only	BIOS	Flash BIOS, BIOS parameters are also saved in FEPRM
Keyboard, Mouse	PS/2	Supported OS	Windows XP, Linux, VxWorks
IDE	ATA-66		



Ordering Information

Ordering Number	Description
<i>t02-0002-10</i>	PC/104 CPU board with AMD GEODE GX466@0.9W, 128 MB DDR SDRAM, 4 x USB 1.1, IrDA, RTC, GoldCap, EIDE, 3 x serial, LPT, PS/2 keyboard and mouse, watchdog, VGA, LCD, 2 x Fast Ethernet, 8 bit I/O, CompactFlash™ Type II Socket.

Note: **t** denotes the temperature range. Substitute with **7** for commercial, **8** for industrial and **9** for extended temperature range

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