ROCKY-3786EVGU2

Socket 370 Base CPU Card with VGA/LAN/GbE/Audio/USB 2.0

Tualatin Supports

Intel® 815EB

Compact Flash type II Socket

Intel® high performance Gigagit Ethernet solution

Audio output

10/100Mbps Etherner

Gigabit Etherner

USB 2.0

Intel 82540 GbE

5 YEARS LONG TERM SUPPORTS

SPECIFICATIONS

ISAPLUS™ USB 2.0 Gigabit Ethernet
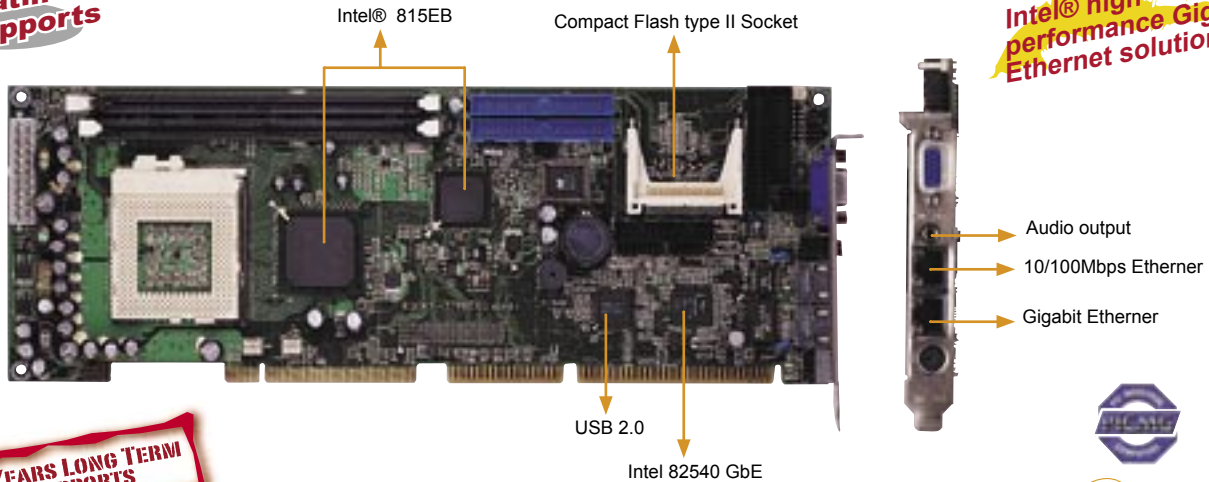
Intel® high performance Gigabit Ethernet solution

The Intel 82540EM Gigabit Ethernet Controller architecture is optimized to deliver both high performance and PCI bus efficiency with the lowest power and smallest die size. Using state logic design with a pipelined DMA Unit and 128-bit wide buses for the fastest performance, the Intel 82540EM controller handles Gigabit Ethernet traffic with low network latency and minimal internal processing overhead. The controller's architecture includes independent transmit and receive queues to limit PCI bus traffic, and a PCI interface that maximizes the use of bursts for efficient bus usage. The Intel 82540EM Gigabit Ethernet Controller prefetches up to 64 packet descriptors in a single burst for efficient PCI-bandwidth usage. A 64 KB on-chip packet buffers maintains superior performance as available PCI bandwidth changes. Advanced interrupt moderation hardware manages interrupts generated by the Intel 82540EM controller to further improve system efficiency. In addition, using hardware acceleration, the controller also offloads tasks from the host processor, such as TCP/UDP/IP checksum calculations and TCP segmentation.

- ◆ CPU: Supports Intel® Coppermine/Tualatin socket 370 series Pentiuml® III and Celeron™ CPU with 66/100/133MHz FSB
- ◆ System chipset: Intel® 815E B stepping chipset
- ◆ System memory: 2x 168-pin SDRAM socket maximum up to 512MB
- ◆ Display:
  - – Built-in 815 chipset
  - – V-RAM: Shared with system memory (DVMT technology)
  - – Resolution: Up to 1600x1200, 8bit color
  - – Connector: DB-15 for CRT display
- ◆ SSD: 1x on board Compact Flash™ Type II socket for CF disk or IBM Microdrive
- ◆ Audio: Onboard AC'97 compliant audio CODEC
- ◆ Ethernet:
  - – 1x onboard 10/100bps fast Ethernet controller
  - – 1x onboard Intel 82540 Gigabit Ethernet controller
- ◆ I/O:
  - – 2x RS-232 serial ports (16C550 UARTs compatible) by pin header
  - – 1x LPT parallel port by pin header (supports SPP/EPP/ECP mode)
  - – 1x IrDA (SIR mode)
  - – 2x USB 1.1 port by pin header
  - – 4x USB 2.0 port by pin header (Optional)
  - – 2x ATA/100 IDE channel supports CD-ROM, ZIP and LS-120 drive bootable
  - – 1x FDD connector, support 1.44/2.88MB and 3-mode floppy drive
- ◆ WDT: Software programmable supports 1~255 seconds system reset
- ◆ Hardware Monitoring: Provides CPU Vcore, Vcc, CPU/System fan speed and temperature detecting function.
- ◆ Power control function: Meets ACPI 1.1 specification, comes with external power connector of 5V input
- ◆ Power Consumption: 5V@7.6A, 12V@230mA (Intel 1GHz CPU with 256MB memory)
- ◆ Operating Temperature: 0~60°C
- ◆ Relative Humidity: 5~95%, non-condensing

ORDERING INFORMATION

- ● **ROCKY-3786EV**   Socket 370 base SBC with VGA, 10/100Mbps LAN, CF socket
- ● **ROCKY-3786EVG**   Socket 370 base SBC with VGA, 10/100Mbps LAN, GbE, CF socket
- ● **ROCKY-3786EVU2**   Socket 370 base SBC with VGA, 10/100Mbps LAN, CF socket, USB 2.0
- ● **ROCKY-3786EVGU2**   Socket 370 base SBC with VGA, 10/100Mbps LAN, GbE, CF socket, USB 2.0
- ● **CB-USB02**   Dual ports USB cable with bracket