ROCKY-4784EVG

Socket 478 Base CPU Card with VGA(32MB)/LAN/Audio/Gigabit LAN

Support 533MHz FSB P4 CPU
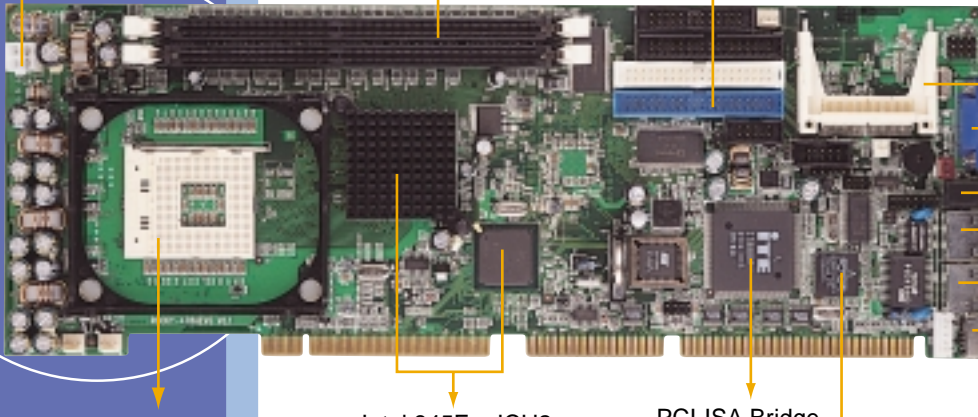
Support DDR Memory Module

ATX-12

Support DDR200/266

2 x ATA-100

SiS 315 32MB VGA

Support 400/533MHz FSB CPU up to 2.53GHz

Intel 845E + ICH2

PCI-ISA Bridge

BCM-5702 Gigabit LAN

CFII
VGA
Speaker Out
10/100 LAN
Gigabit LAN
PS/2 Keyboard/Mouse

Support P4 Power Supply List

	Max. 12V	Max. 5V	Input
ACE-R30A/30AP(230V)	15A	35A	AC ATX
ACE-C232	12A	25A	AC AT
ACE-832A/AP	15A	30A	AC ATX
ACE-828A/C/T/M	15A	30A	AC ATX
ACE-840A/AP	15A	40A	AC ATX
ACE-940AP	15A	40A	AC AT
ACE-930AP(230V)	12A	30A	AC AT
ACE-932T	10A	35A	48 VDC
ACE-925P	10A	25A	110 VDC
ACE-925T	8A	25A	48VDC
ACE-723T/C	12A	33A	48/24 VDC
ACE-723A/B	12A	33A	AC AT
ACE-716A/AP	10A	25A	AC AT
ACE-716T/C	10A	25A	48/24 VDC

What is DDR Memory?

DDR SDRAM, or simply DDR, is the acronym for Double Data-Rate Synchronous DRAM (SDRAM), DDR SDRAM memory is an evolutionary product built upon the foundation of current PC100/PC133 memory technology. Unlike SDRAM memory that supports one operation per the computer's clock cycle, DDR SDRAM memory can do two operations per clock cycle, thereby doubling the memory bandwidth over the corresponding sinle-data-rate SDRAM.

Technically, the DDR memory bus runs at memory-bus clock rate of 100MHz for PC1600, 133MHz for PC2100, and 166MHz for PC2700. However, each DDR memory module and memory chip run at an effective (data) rate of 200MHz, 266MHz, and 333MHz. The computer industry has adopted a practical convention of just referring to the data rate as the DDR DIMM speed. So, PC1600 DIMMs are said to run at 200Mhz, PC2100 at 266MHz etc.

DDR vs SDRAM Modules

DDR DIMMs and SO-DIMMs have the same physical dimensions as their SDRAM counterparts, but have a different footprints. DDR DIMMs have 184 pins compared to 168-pins for SDRAM DIMMs. DDR SO-DIMMs have 200 pins compared to 144 pins for SDRAM SO-DIMMs.

DDR DIMMs and SO-DIMMs also have a different notch (called 'key') that will only fit motherboards and systems especially designed for DDR. DDR modules will not fit into PC100 or PC133 sockers and are not backward compatible.

SPECIFICATIONS

- **CPU:** Support P4 CPU 1.4G-2.53GHz (400MHz FSB/533MHz FSB)
- **System Chipset:** Intel 845E+ ICH2, PCI 2.2 compliant
- **System Memory:** 2x 184pin DIMM up to 2GB DDR SDRAM (DDR 200/DDR 266)
- **Display: SiS 315 2D/3D Graphics Engine**
    AGP 4X bus bandwidth up to 533 MB/sec
    Resolutions: up to 1600x1200 (UXGA)
    V-RAM: 32MB SDRAM onboard
    Connector: DB-15 for CRT
- **Ethernet:** 1x 10/100Mbps fast Ethernet controller onboard (i82562, ICH2)
    1x Gigabit LAN onboard (Broadcom 5702)
- **SSD:** 1x Compact Flash type II
- **I/O:** −2x RS-232 series port by pin header (16C550 UARTs Compatible)
    −1x LPT by pin header (support SPP/EPP/ ECP mode)
    −1x IrDA by pin header (SIR mode)
    −2x USB port by pin header (USB 1.1 Compliant)
    −1x FDD channel support 1.44MB, 2.88MB and 3-mode
    −2x ATA-100 IDE channel support CD-ROM; ZIP and LS-120 bootable.
- **Audio:** AC'97 compliant Audio CODEC (Line-in, Line-out, Mic-in by pin header)
- **WDT:** software programmable support 1~255 second system reset
- **ISAPlus™:** Design to enhance the ISA bus drive capability (64mA)
- **Hardware Monitoring (CPU Vcore; Vcc; CPU/System Fan speed and Thermal)**
- **ATX power control function:** meet ACPI 1.1
- **Power consumption:** +5V@5A, +12V@6.6A, 12V power request min. 8A. (P4 2.2GHz CPU with 2GB DDR SDRAM, Windows 2000)
- **Operating Temp:** 0-60°C (CPU cooler needed)
- **Relative Humidity:** 5-95%, non-condensing
- **GW:** 900g

ORDERING INFORMATION

- **ROCKY-4784EVG** PICMG Socket 478 Base SBC with VGA(32MB), Audio, LAN and Gigabit LAN
- **ROCKY-4784EV** PICMG Socket 478 Base SBC with VGA(32MB), Audio, LAN
- **CB-USB02** Dual ports USB cable with bracket
- **ACE-840A/AP** 400W ATX power supply for P4 system
- **ACE-940AP** 400W AT power supply for P4 system