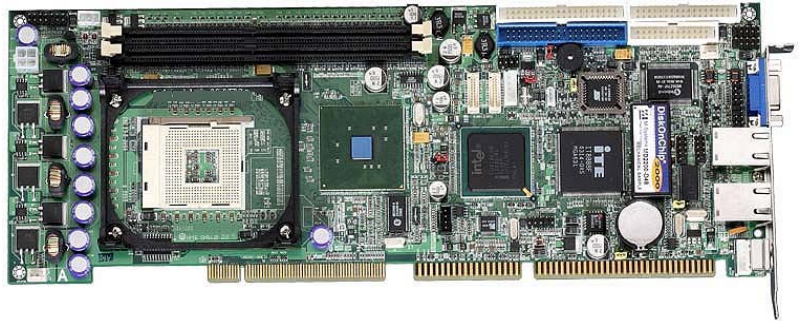


NASA-P403VLG

- Full-size PICMG-bus mPGA478 Pentium 4 DDR CPU Card
- 24-bit Dual channel LVDS Interface
- Intel PRO/100+ and Intel PRO/1000+ LAN
- Hi-Speed USB 2.0, Audio, DOC Interfaces and ISA 64mA High Drive Capacity
- ISA high drive capacity with enhanced 64mA on data and address bus. Drive capacity up to over 20 pieces of ISA-based add-on cards for CTI, VoIP or other applications with multiple ISA-based peripheral cards



PICMG bus P4 SBC CPU | Dual LVDS / Dual Fast Ethernet/ USB 2.0

General specifications

Full-size PICMG (PCI/ISA)-bus CPU card with 32-bit PCI and 8/16-bit ISA bus interfaces

System Chipset

Intel 845GV series chipset GMCH and 82801DB ICH4

BIOS

Award BIOS, PnP support, Anti-Boot Virus function, Boot Room & 512KB FLASH EPROM for BIOS update

Green Function

power saving supported in BIOS. DOZE / STANDBY / SUSPEND modes, ACPI & APM

Secondary Cache

Integrated on CPU and runs on CPU core frequency

DDR Memory

Two 184-pin 2.DDR DIMM sockets support DDR266S or DDR200 DRAMs up to 2GB of PC2100 system memory

Data Bus & Bus Speeds

32-bit PCI

PCI Enhanced IDE with Ultra DMA

supports 2 ports and up to 4 ATAPI devices, Ultra DMA transfer rates 100 MB/sec

Watchdog Timer

4 level programmable watchdog timer, from 10-80 seconds.

Real-time Clock

built-in super I/O with lithium battery backup for 10 years of data retention. CMOS data backup of BIOS setup and default.

DiskOnModule

Support DOM up to 512MB

PCI bus

Supports 32bit PCI bus

High Drive ISA64 bus CTI ready ISA Add-on

64 mA high drive buffer supports up to 20 ISA based add on cards

High Speed Multi I/O

Serial ports. 2xCOMs (1x RS232 and 1x RS232/422/485)

USB

Four onboard USB v2.0 port support hot- plug function one IrDA interface

Floppy Disk Drive Interface

2 floppy disk drives, 5" (360 KB or 1.2 MB) and 3½" (720 KB, 1.44 MB, 2.88 MB) or LS-120 Drive

Bi-directional Parallel Port

1xSPP, EPP and ECP mode.

Keyboard and Mouse Connectors

external PS/2 KB/Mouse port (2-in1 mini DIN) onboard AT Keyboard port (5-pin box header)

Network Interface Controller

Chipset

1 x [Intel PRO/100+](#) 10/100 Mbps and 1 x [Intel PRO/1000+](#) 100/100 Mbps Fast Ethernet interfaces

Dual LAN Design

Two 10/100M RJ-45 Ethernet port. Support load-balancing ,Load Sharing, Network redundancy.

LAN Management

support IntelLAN Desk Service Agent 6.0

Display Controller Chipset

Intel 845GV GMCH built-in [Intel Extreme Graphics](#) with 266 MHz VGA core, 256-bit 3D engine and dynamic video Memory

LCD

Integrate 24-bit Dual channel LVDS Interface

Display Type

CRT (VGA, SVGA, XGA, SXGA) & TFT LCD

System Monitoring and Alarm

Chipset

Intel 845GV

For CPU & System Temperature, System Voltage and Cooling Fan RPM

Environmental and Power

Power Requirements

12A@ +5v typical; 10A@ +12v typical
100mA@ -12V typical; 200mA@ +5VSTB (Option)

Board Dimensions

338 mm x 122 mm.

Board Weight

0.6 Kg.

Operating Temperature

0 to 55°C (32 to 131°F)