RIOWORKS™
The Reliable Building Block

NUVIA-L / NUVA-GLS
Ultimate Pentium 4 DDR Platform

VIA P4X266A chipset (VT8753A and VT8233C)

Single Intel Socket-478 Pentium 4 solution

PC2100/1600 DDR DRAM with ECC support and memory space up to 4GB registered DDR DRAM

64 bit / 66 MHz PCI Ready

One AGP Pro slot and AGP 4X mode

Onboard ultra160 SCSI

Gigabit / (10/100) BASE-T Ethernet LAN onboard

USB2.0 feature support

Supports Hardware Monitor

Rioworks™ SmartWatch™ Server Management

NUVIA-L/NUVIA-GLS, a single socket-478 motherboard, supports the latest Pentium® 4 processor for providing a powerful platform to satisfy today's needs on highly integrated workstation / sub-entry's server. With the latest AGP Pro slot, users' can   enjoy the most advanced high-end graphics cards with ease. The onboard Adaptec Ultra160 SCSI controller will boost up the data transfer rate up to 160MB/s. Other features such as USB 2.0 and   Gigabit/(10/100)Mb LANs chips will also dramatically increase I/O bandwidth to meet the demands of workstation/Server.

To sum up, NUVIA-L/NUVIA-GLS delivers high performance and true workstation/ server functionality at affordable price range.

For more information, please visit us at
www.rioworks.com

FC CE

Features / Benefits

Intel Pentium 4 Solution
NUVIA-GLS/NUVIA-L supports thes latest Intel® socket-478 Pentium 4 processors at 533/400MHz Front Side Bus(FSB).

DDR memory Solution
Four DIMM slots bring customers the best investment interest with the latest DDR technology. NUVIA-GLS/ NUVIA-L can supports high performance PC2100/PC1600 DDR memory and maximum of 4GB system memory with ECC function.

AGP Pro Slot
NUVIA-GLS/NUVIA-L provides an AGP Pro connector, which support advanced 3D graphics cards and satisfies the stress demands of the high-end graphic applications.

Highly integrated Gigabit Ethernet/Ultra 160 SCSI (NUVIA-GLS)
Designed for a business-oriented system, the NUVIA-GLS embeds Broadcom Gigabit/ (3Com 10/100Mb) LAN controllers and multithreading Adaptec 7892 Utlra160 SCSI. With this optimized integration, NUVIA-GLS is the best fitting for business environments.

USB 2.0 integration
With the USB 2.0, applications are expected to include high-speed network peripheries (480Mbps) such as storage, imaging, and communication devices comparing with the maximum 12Mbps transfer rate of USB 1.1.

Dual PCI bandwidth
The NUVIAS-GLS provides one concurrent 64bit/66MHz PCI bus additional to 32bit/33MHz PCI bus. The overall bandwidth would expand to 666 MB/s (533MB/s + 133MB/s) to provide excellent business expansion performance/ capability.

PC'99 Compliant Color-Coding I/O Connectors
This colored Keyboard (PS/2)/ Mouse (PS/2)/ Serial/Parallel/USB connectors will make your system installation and maintenance with less fuss.

Hardware Monitor and System Management
Integrated hardware monitoring of fans, temperature/ thermal, voltage and chassis intrusion, Rioworks™ SmartWatch™ will notify the critical status of system event to prevent form the system data loss.

Specification

Processor
Single Intel Pentium 4 solution
Support Intel PGA478 Pentium 4 processor inclusive Northwood core
Front Side Bus supports 533/400Mhz

Chipset
VIA P4X266A chipset
VT8753A north bridge/ 8233C South Bridge/VPX *(NUVIA-GLS)*

System BIOS
Award BIOS on 2Mb flash
APM v1.2 and ACPI v1.0 Support
DMI 2.0 compliant
SMBIOS 2.3 compliant
Legacy USB support
I2O support
Wire for Management 2.0/Wake On LAN
LS-120, IOmega zip support
MO, DVD and CD-ROM support
Auto configuration of IDE hard drive types
Advanced IDE (supports bigger than 8GB HDD with S.M.A.R.T.) features
Soft Power-down
Secure Boot
Multiple boot support
Auto reset after overclocking

Integrated I/O
One floppy connector supports up to two drives
PS/2 keyboard and Mouse ports
Two 9-pin 16550-based serial ports
One 25-pin ECP/EPP parallel port
Dual USB2.0 external connectors plus three internal USB2.0 headers.
One Ethernet connector
One Gigabit Ethernet connector *(NUVIA-GLS)*

Expansion Slots
One AGP Pro slot supports AGP 4X modes for a high-end graphics card
One 64bit/ 66Mhz PCI *(NUVIA-GLS)*
Five 32bit/ 33Mhz PCI Slots

Integrated PCI IDE
Dual-channel master modes support up to four enhanced IDE devices
Support ATA-100/66/33 IDE and ATAPI compliant device

Dual Integrated LAN
3Com 10/100 BASE-T Ethernet embedded for 10/100Mbps transfer rate
Broadcom Gigabit Ethernet onboard *(NUVIA-GLS)*
3-pin Wake-on-LAN header

Form Factor
ATX form factor with size: 12"*9.6"

The specification is subject to change without notice.
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