Datasheet : Vario Elite 4000 Digital Signage Controller

Features

- HDTV Resolution support
- MPEG 4
- Gigabit and wireless LAN
- Slim 1U form factor
- Serial ATA I/II 3Gb/s

Part of the Vario Elite family, the 4000 brings ultimate processing performance to the Blue Chip Technology range of digital signage controllers. Delivering HDTV resolutions, high bit rate content and stunning 3D rendering, the Vario Elite 4000 delivers the best visual experience in its class. It handles all the standard industry media files - including MPEG 4 and displays at native resolution with full image rotation. Leveraging the latest high bandwidth technology such as PCI Express, SATA, gigabit LAN and dual channel memory, Blue Chip Technology has raised the bar for overall system speed and efficiency.

Combining performance and quality, the Vario Elite 4000 chassis is a ruggedised build, equipped to handle the 24/7 demands of signage applications. However, it's slim 1U footprint means it mounts to the rear of the display or in a rack. Special features such as hardware system watchdog, industrial temperature ranges and high MTBF disk drives build reliability into your digital signage installation. You can access your network via a gigabit LAN or wireless LAN, protected by an Active Armor firewall. The unit, designed and manufactured in the UK, is EMC tested, RoHS compliant and fully CE approved.

Configuration Option Checklist

Mounting Kits : NEC brackets, Rack mount 1U brackets, rear cable guard
Optical Drive : DVD-R, DVD-RW
Display Outputs : VGA and DVI, *TV Out (composite and S-Video) and DVI
Expansion Options :
**PCI Expansion : 802.11a, b and g wireless LAN, ADSL, PSTN Modem
**PCI Express Expansion : enhanced graphics card with dual and quad head outputs
Additional Firewire IEEE 1394 port
Additional two additional USB 2.0 ports
S/PDIF Audio
Operating System : Windows XP Pro, Windows XP Embedded, Linux
Power Lead : UK Mains, US Mains, European Mains
Wireless LAN : USB or PCI
Video-In Tuner Card
Hard Drive Storage : HDD 80GB to 200GB, CompactFlash 256MB to 4GB
Hardware watchdog controller board

* not available when expansion slot in use
* * one slot available either PCI or PCI Express

RoHS Compliant 2002/95/EC

Microsoft® Windows® Embedded Partner

Linux

CE

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BS EN ISO 9001:2000

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Technical Specification

System

AMD Athlon 64 and NVIDIA GeForce 6150 GPU
Four 184-pin DDR sockets, DIMM memory modules - 256MB to 4GB DDR400 SDRAM

Local Storage

3.5” Internal SATA II Hard Drive and Flash Drive

Drive bay supports DVD-R or DVD-RW

Operating System Support

Windows XP Pro, Windows XP Embedded and Linux

Enhanced IO

One parallel port
One RS232 port
One external and one internal FireWire (IEEE-1394)

Two internal and four external USB 2.0 ports
PS/2 mouse and keyboard

Expansion

Optional PCI slot or one PCI Express x 16 slot

Local Area Network

Gigabit LAN 10/100/1000 with NVIDIA ActiveArmor Firewall
Optional Wireless LAN

Display/Audio

Integrated NVIDIA GeForce 6150 GPU
All common resolutions up to 1920 x 1440 including widescreen and HDTV (720i/720p, 1080i), custom utility for non-standard resolutions
One VGA or TV Out (composite and S-Video) with DVI/D (DVI/D cannot be converted to output RGB signal to CRT)
Optional TV In
H.264 (part of MPEG 4 standard), MPEG 2 and WMV including WMV-HD
0, 90, 180, 270 degrees rotation without performance degradation (landscape & portrait)
Hi Definition Audio, 5.1 channel
Supports Mic In, Audio In & Out in stereo mode, optional S/PDIF audio
300Mhz RAMDAC

Power

Compliant with EPA and ACPI 2.0, ATX soft-off power control
Power on by keyboard and mouse, external modem ring, alarm or LAN wake up
Power Modes: Auto Power On, Auto Power Off and Auto Resume
Power Input: 100 - 240 AC input (auto-switched)

Environmentals/Mechanicals

Unit size - W425mm x H44.5mm x D337mm
Operating temperature 5°C to 45°C
EN55022 Class A – Emissions
EN60950 and UL60950 Third edition safety

Storage temperature range -20°C to +70°C
Relative humidity 5 to 90%, non-condensing
EN55024 Susceptibility
Fully RoHS compliant

System Management

CPU and system temperature monitoring, fan and voltage monitoring
CPU throttling if temperature limits reached to prevent damage
Optional hardware watchdog controller

System Warranty

Standard one year return to base warranty

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