VARIO A2

VA2 Digital Signage Player

PRODUCT INFORMATION

VA2 - For the Engineers

VA2 - The Headlines

- AMD G-Series Ultra Low Power Dual Core T40E APU (1GHz) with integrated AMD Radeon HD 6250G Series Graphics
- 2D Acceleration
  - Highly-optimized 128-bit engine, capable of processing multiple pixels per clock
- 3D Acceleration
  - Full DirectX® 11 support, including full speed 32-bit floating point per component operations
  - Shader Model 5
  - OpenCL™ 1.1 support & OpenGL 4.0
- DVI-I Display Port
- 2GB or 4GB DDR3 800-1066MHz
- Dual 10/100/1000 Mbit LANs
- Drive Storage from 250GB to 2TB
- Mini PCI-Express socket
- Quad USB 2.0 Ports, Audio Line Out
- Optional RS232 Serial Port, TV Out (Composite), Wi-Fi, GPS
- Operating Systems- XP Embedded, XP Pro, Win 7, Linux
- 12 Volt Power Required- optional external 100 to 240 Volts AC Power Supply
- Compact Size - 200 x 113 x 52 mm
- Designed, Manufactured and Technical Support in the UK

VA2 - In a few words

Designed and manufactured at Blue Chip Technology's facility in the heart of the UK the Vario A2 offers great processor and graphics performance in a very small form factor which is ideal for most entry level digital signage installations.
The Vario A2 can drive either a DVI or VGA (adapter supplied) display. With its dual Gigabit LANs, quad USB and dual RS232 ports the VA2 offers the most popular interfaces for a multimedia hub.
The Vario A2 can be supplied fitted with WiFi, 2G or 3G modem, GPS, Zigbee and a wide range of other interfaces. Able to operate at ambient temperatures of up to 45 degrees centigrade the Vario A2 makes installation a simple exercise.
If your installation requires a low cost reliable engine for its heart with great CPU and graphics performance - the Vario A2 is the answer.

Microsoft® Windows® Embedded Partner

BS EN ISO 9001
Certificate No 33069

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PRODUCT INFORMATION

Processors & Memory

- Processors
  - AMD G-Series Dual Core 1GHz T40E CPU

CPU Cores	2
Socket	NA
Processor Core	G-Series
Data Width	64 bit
Level 1 Cache size	32KB instruction cache
Level 2 Cache size	32KB data cache 512KB per core (1MB)

- Memory

Technology	DDR3
Speed	800/1066 MHz
Channel Width	128 bits
Capacities	2GB to 4GB

Graphics

- Dedicated graphics memory controller
  - High efficiency ring bus memory controller
  - Direct connection to memory
- 2D Acceleration
  - Highly-optimized 128-bit engine, capable of processing multiple pixels per clock
- 3D Acceleration
  - Full DirectX® 11 support, including full speed 32-bit floating point per component operations
  - Shader Model 5
  - OpenCL™ 1.1 support
  - OpenGL 4.0 support
- Motion Video Acceleration
  - Dedicated hardware (UVD 3) for H.264, VC-1 and MPEG2 decode
  - HD HQV and SD HQV support: noise removal,detail enhancement, color enhancement, cadence detection, sharpness, and advanced de-interlacing
- Super up-conversion for SD to HD resolutions

Display Outputs

- 1 x DVI- I Port providing
  - 1 x DVI or
  - 1 x VGA via DVI to VGA adapter (supplied)
- Optional TV Out (Composite)

Communications

- Two 10/100/1000 Mbit LANs
- Four USB 2.0 Hosts
- Optional RS232 port
- Optionals via the Mini PCI-Express socket:
  - 2G/3G Modem
  - GPS
  - Wi-Fi
  - Bluetooth
  - Zigbee

Storage

- 250GB to 2TB High Speed Disk Storage
- Options:
  - Solid State Storage- 2.5” or Compact Flash available

Expansion and General Interfacing

- 1 x PCI Express Mini Card Slot
- Watchdog timer 1-255 seconds/minutes

Operating System Support

- Microsoft Windows XP Embedded, XP Professional, Windows 7, Windows 8
- Ubuntu Linux 12.04 LTS

Environmental/Mechanical

- Operating Temperatures

Standard	0°C to 45°C
Humidity	10% to 85% non-condensing

- EMC

Emissions	EN55022 (A)
Immunity	EN55024
Safety	EN60950

- Dimensions: 200 (width) x 113 (depth) x 52 (height) mm

Power

Input Voltage	12 Volts DC
Power Consumption	14 to 20 watts (idle to CPU+GPU load)
Connector	2.5mm/5.5mm Jack plug

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