

## KEY FEATURES

- ▶ Built-in Intel® Atom™ Processor N270 1.60 GHz
- ▶ Fanless operation
- ▶ Compact footprint - W270mm x H44mm x D180mm
- ▶ Gigabit LAN
- ▶ Three USB 2.0 ports
- ▶ Optional Hardware system watchdogs
- ▶ Internal DV HDD or 2.5" solid state drive
- ▶ Optional Flash storage
- ▶ Wide range of DC input voltage supported: 9 ~ 24 VDC



## Zeta A1

The Zeta A1 is the latest addition to Blue Chip Technology's series of low power, embedded PCs. Equipped with the Intel 1.6GHz N270 processor, the Zeta A1 combines robust performance with a very low power consumption and low noise profile. Fanless operation further improves the reliability of the Zeta platform. The Intel 945GSE chipset offers advanced graphics and 3D performance, making the A1 a very cost effective solution for thin client terminal, digital security, home automation, home surveillance and industrial control applications.

There is a full set of IO features, including one Gigabit Ethernet, three USB 2.0 ports, two COM ports, one DVI, one VGA and one composite output. Multiple video interfaces support dual display and stereo audio further enhances a perfect engine for multimedia applications. System storage can be provided by solid state SATA drive, disk-on-module or standard SATA HDD and the unit can accommodate up to 2GB DDR2 RAM.

Special features such as hardware system watchdog, industrial temperature ranges and high MTBF disk drives build reliability into each unit. Zeta A1 has a lightweight compact design and number of flexible VESA and wall mount options supporting a neat install when space is at a premium. Blue Chip manage production for platform stability and longevity, making the Zeta A1 an essential, low maintenance building block for industrial control. The unit is EMC tested, fully CE approved and covered by a standard one year warranty.

## SYSTEM

- ▶ Intel® Atom™ N270 1.6GHz CPU and 945GSE chipset
- ▶ Up to 2GB DDR2 SDRAM

## STORAGE

- ▶ 3.5 inch SATA hard disk drive
- ▶ 2.5 inch Solid State Drive
- ▶ Optional Disk on Module

## OPERATING SYSTEM

- ▶ Windows®XP Pro
- ▶ Windows®XP Embedded
- ▶ Linux

## ENHANCED IO

- ▶ VGA analogue
- ▶ DVI-D (digital only)
- ▶ 2 serial ports -1 RS232 and 1 RS232/422/485
- ▶ 3 USB (2.0) ports
- ▶ 1 Ethernet (10/100/1GB) LAN port
- ▶ Composite Output
- ▶ 1 PS/2 (keyboard and mouse via splitter cable)

## LOCAL AREA NETWORK

- ▶ Ethernet (10/100/1Gb) LAN

## DISPLAY/AUDIO

- ▶ Dual display interfaces - VGA, and DVI
- ▶ TV Out (Composite Video)
- ▶ Stereo Out
- ▶ Intel® Graphics Media Accelerator 950 core
- ▶ 2D and 3D Acceleration including support for Full DirectX 9.0 and OpenGL
- ▶ Up to 2048 x 1536 VGA and 1600 x 1200 resolution DVI

## POWER

- ▶ ACPI v1.0 and APM v1.2
- ▶ 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, Always Power On (Optional)
- ▶ Power Input: DC 9 - 24V. Mains adaptor available

## DIMENSIONS

- ▶ W270mm x H44mm x D180mm

## SYSTEM MANAGEMENT

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

## ENVIRONMENTALS

- ▶ Operating temperature range +0°C to +40°C
- ▶ Storage temperature range -20°C to +70°C
- ▶ Relative humidity 5-90% non-condensing
- ▶ Shock and vibration compatible with light industrial usage
- ▶ EN55022 Class A – Emissions
- ▶ EN55024 Susceptibility
- ▶ EN60950-1 Safety

## WARRANTY

- ▶ Standard 1 year return to base. optional two year extension