

**100 % Fanless design
for Automation controller**

FEATURES

- ⊗ Aluminum extruding chassis, fully **fanless** design, Eden 733 MHz, DDR RAM up to 512M
- ⊗ 3 External serial RS-232/422/485 port
- ⊗ Dual LAN port/4 USB port
- ⊗ DC single 12V input
- ⊗ AC 97 audio with amplifier output
- ⊗ Storage device: 2.5 inches HDD/CF card
- ⊗ Watchdog timer
- ⊗ Battery supported, 10 min during power interruption provided with Wake On LAN function, Wake On Ring function



Embedded Box BA-4000

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Specification

Processor	Onboard VIA Eden ESP 6000 Processor 733MHz (up to ESP10000)
Chipset	North Bridge-VIA CN400 (FSB 133MHz) South Bridge-VIA VT8237
Memory	1 DDR-184 DIMM (Right Angle) up to 1GB Hi Limitation =16mm
I/O Chipset	Winbond W83697
BIOS	AWARD BIOS, 512KB (4M bit)
Ethernet	Realtek 8100C x 2 Fast Ethernet controller, support 10/100 Base-T Two RJ45 connector
Audio Chipset	VIA VT1616 Stereo AC'97 Output-0.5watts/channel w/speaker connectors, beeper music
GPIO PCI Bus Battery	74F245 buffer for 8 inputs or 8 outputs, PC104 Pluse or Mini PCI,
Operating System 1	Linux in Flash, In-circuit programming (ICP) interface drivers for all on board hardware + IDE
Operating System 2	Win CE, drivers for all on board hardware + IDE
System	Watchdog Timer, Power failure recovery, CPU voltage Monitoring
Power	12V single power input
LED	12V power, Power on HDD, LAN
Option	Battery package supported for 10 min system running after power lost
Net Weight	2.0 KG
Dimensions (mm)	255(L) x 176(W) x 53(H)

Environmental

Operating temperature	0° C ~ 50° C
Humidity	0% ~ 93% Non-condensing
Vibration	5~500Hz 1G RMS Random Vibration

Display

VGA Controller	Embedded S3 Graphic in VIA CN400 Chipset
VGA Resolution	64MB UMA Frame buffer-Shared system memory, Integrated AGP 4X graphics, CRT up to 1600 x 1200 @ true color, DS-15
Panel Controller	VIA VT1631 supports LVDS interface (with inverter connector), Hirose 30 pin (single/dual channel support)
Panel Resolution	LVDS up to 1024 x 768 @ true colors

I/O

IDE Primarily	20 x 2 Ultra DMA 133/100/66 w/connector for hard drive
CF Card	1 x for onboard IDE Compact Flash connector
Serial Port	1 x RS-232 serial port, 1 x RS-422/485 (2 x DSUB-9) 2 x RS-232 pin header
USB	Support four USB 2.0 with connector
K/B & Mouse	PS2 Keyboard/Mouse port (1 connector)



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|---------|----------|-------------|----------------|
| 01 LAN2 | 03 USB | 05 VGA/COM3 | 07 COM1 |
| 02 LAN1 | 04 MS/KB | 06 COM2 | 08 Power Input |



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