

EMB-862

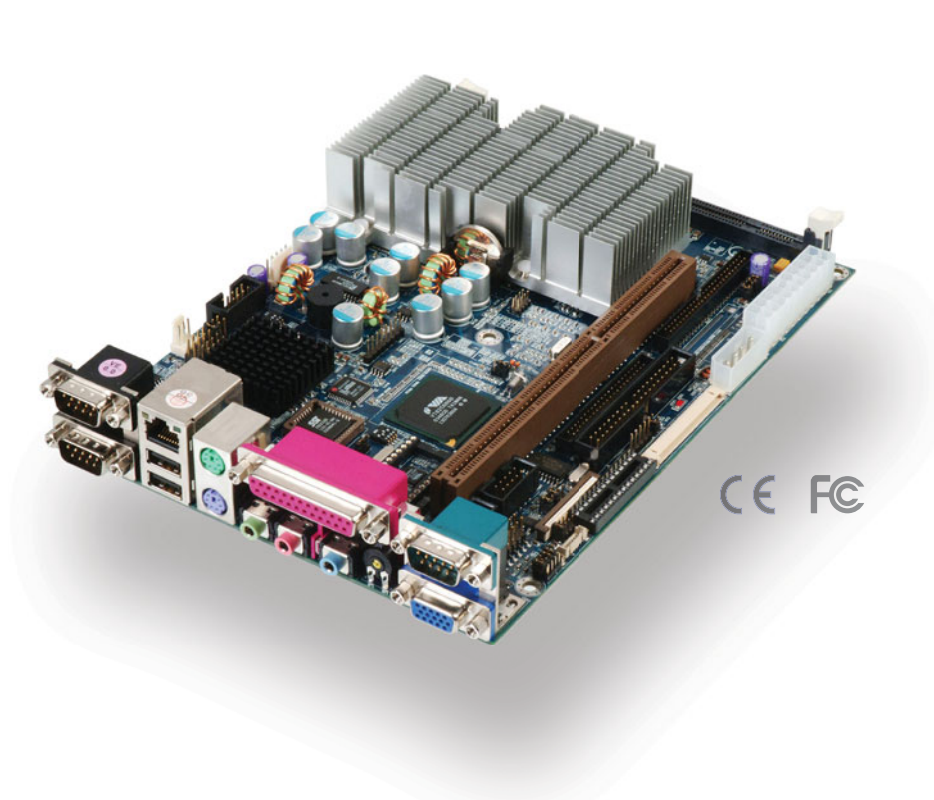
ATIO System Industrial Single Board Computer

FEATURES

- VIA Eden 7000 733Mhz Low voltage CPU on-board
- External I/O connectors to reduce cables usage
- Dual-view to VGA & LCD simultaneously in different contents
- On-board 3M touch controller socket (option)
- Use solid-state capacitors (low ESR) on-board
- CE / FCC class B certified

APPLICATIONS

- POS / KIOSK / ATM machine
- Gaming & Entertainment
- Factory Automation
- Industrial HMI Panel PC
- Machine Automation



EMB-862 is an on-board VIA Eden 7000 all-in-one single board computer with external connectors for space saving required applications. EMB-862 features VGA & TTL/LVDS interface / One LAN / Two IDE banks / Four COMs / Four USB 2.0 / Four digital in & out / on-board 3M touch controller socket. EMB-862 single board applies the most reliable solid-state capacitors (low ESR) on-board.

EMB-862

Industrial Single Board Computer

Technical Specifications

System	
Processor	VIA Eden ESP7000 733Mhz CPU onboard
Chipset	VT8606 / VT82C686B
System Memory	One DIMM socket, max. 512 MB SDRAM
I/O Chipset	Winbond 83977
BIOS	AWARD 256KB Flash ROM, support boot-up from USB.
Ethernet	Realtek 8139C, 10/100 Base-T, wake on LAN, Boot ROM and PXE functions. Connector: One RJ-45
Audio	Build-in audio function, integrated AC97 codec Connector: Mic-in, Line-in, Speaker-out external w/ 3W output internal connector
Hardware Monitor	Onboard Genesys GL518SM, monitor system / CPU temperature and voltage status
Watchdog timer	Programmable 8-level time-out intervals
SSD interface	Support M-system DiskOnChip
Expansion Interface	One 32-bit PISA expansion slot
Power Management	AT/ ATX co-design supports power saving and Doze/ Standby/ Suspend modes. APM 1.2 compliant Connector: AT/ ATX power connector; One HDD 4T connector
Operating temperature	0°C ~ 60°C
Humidity	5% ~ 95% Non-condensing
Dimensions	219mm x 159mm (8.6" x 6.3")
Net Weight	350g

Display	
VGA/ LCD Controller	Integrated S3 Savage4 graphic function, support dual-view (CRT/ LCD simultaneously in different contents)
VGA Interface	One DB-15 connector (external) / One 2x8, 2.54 pin header (internal); resolution support up to 1600x1200
LCD Interface	Support TTL 18/ 24/ 36bit DSTN/ TFT flat panel with 256 gray shade & LVDS 18/ 36bit TFT panel; resolution support up to 1024 x 768; Option LVDS 24bit TFT panel via daughter board Connector: One LCD 2 x 25, 2.0 pitch pin-header for TTL and one molex 5045-05A inverter connector One HIRSOSE 30-pin for LVDS; Option 2 x 25, 2.0 pitch pin-header for LVDS daughter board
Touch Controller (option)	Penmount DMC9000 touch controller onboard (socket type)

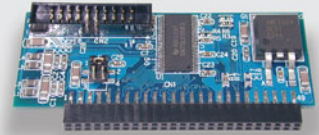
I/O	
IDE	Two enhanced IDE Support up to 4 devices including UDMA 100/ 66/ 33 Mode Connector: One 40-pin & one 44 pin pin-headers
FDD	Support NB type FDD Connector: One 26-pin 1.0 pitch connector
Serial Port	Four COM ports with ESD protected COM 1/ 2 : RS232 DB-9 connector COM 3 : RS232/ 422/ 485 DB-9 connector COM 4 : RS-232 2 x 5 2.0 pitch pin-header
USB	Four USB 2.0 port Two USB connector external / One 2 x 4, 2.54 pitch pin-header internal
Parallel Port	One SPP/ EPP/ ECP bi-directional port Connector: One DB-25 connector
K/B & Mouse	Two standard PS/2 for K/B & mouse
IrDA	One IrDA pin-header
Digital I/O	4 digital-in / 4 digital-out

Packing List	
IDE cable 2 x 22, 2.0 pitch x 1 (P/ N# C222-HD000-200)	
IDE cable 2 x 20, 2.54 pitch x 1 (P/ N# C222-HD100-254)	
USB cable 2 x 4, 2.54 pitch x 1 (P/N# C222-USB2P-254)	
USB cable 2 x 4, 2.54 pitch x 1 (P/N# C222-USB2P-254)	
COM cable 2 x 5, 2.0 pitch x 1 (P/N# C222-BKCA0-200)	
Utility CD (w/ Manual & Drivers) x 1	

Ordering Information	
EMB-862 :	Single board, Eden 733Mhz CPU onboard; support LCD, LAN, DI/ DO; expansion 1 PISA slot; ATX power
EMB-862AT :	Single board, Eden 733Mhz CPU onboard; support LCD, LAN, DI/DO; expansion 1 PISA slot; AT power
RC-LVDS24 (Option) :	TTL to LVDS daughter board, support LVDS 24bit TFT flat panel.
Riser-2P2A (Option) :	Riser Card for EMB-861AB/ 862, support 2 PCI/ 1 ISA or 1 PCI/ 2 ISA
Riser-2PCI (Option) :	Riser Card for EMB-861AB/ 862, support 2 PCI
Touch Controller (Option) :	3M Touch Controller Onboard Chip

Accessories of EMB-862

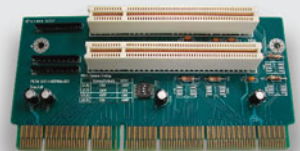
RC- LVDS24



Riser- 2P2A



Riser- 2PCI



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