

EMB-862

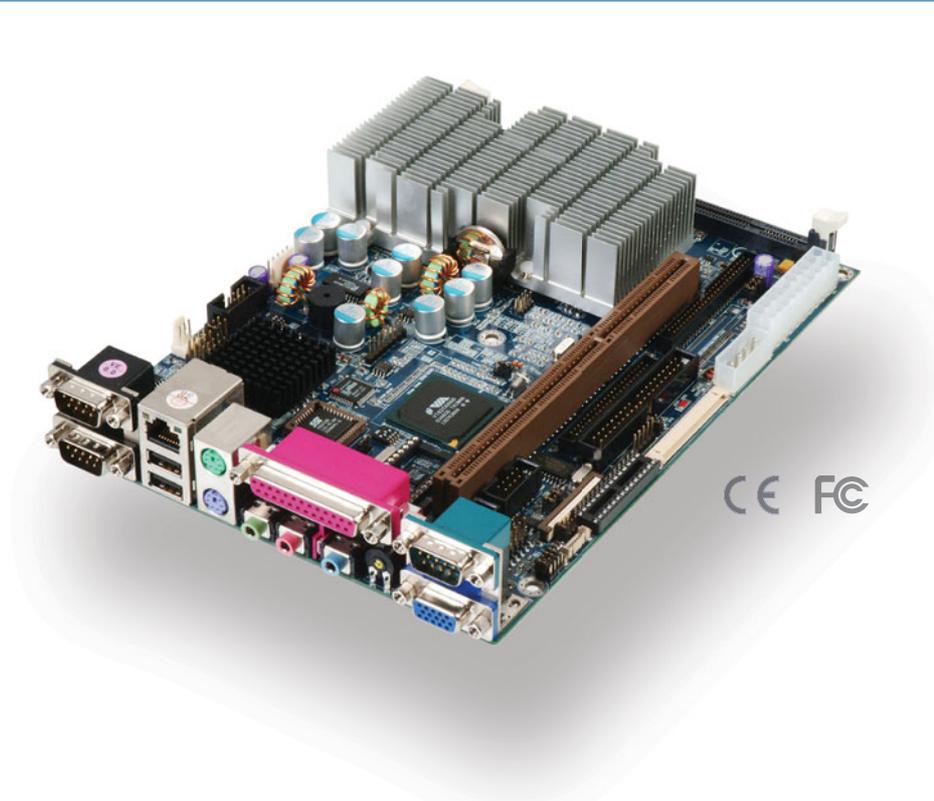
ATIO System Industrial Single Board Computer

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



CE FCC

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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