

VIA  
**AMOS-3000**

Ultra Compact Fanless Embedded System for Pico-ITX EPIA-P700 Embedded Board



**Features**

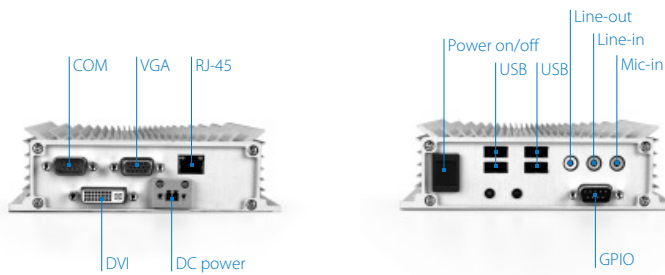
- A fanless, ultra compact embedded chassis supporting EPIA-P700 embedded board
- Slim size with stylish ID and full sealed of aluminum design and few mechanical parts
- Additional extension sub-system chassis for 2.5" SATA hard drive storage chassis
- Optimized integration with front and rear I/O access
- Supports dual independent display
- Supports Gigabit Ethernet and WiFi networking options
- Embedded OS Ready platform
- Multiple mounting solutions: Wall / Table / VESA mountable
- Fanless design for space and environment critical applications

**Specifications**

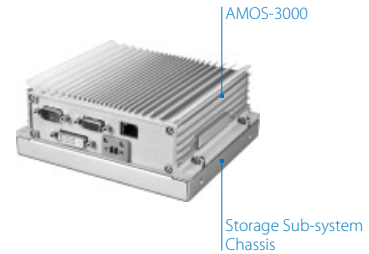
| Part Number                 | AMOS-3000-1C10A1         |  |
|-----------------------------|--------------------------|--|
| <b>Processor System</b>     | <b>Processor</b>         | 1.0GHz VIA C7® (optional support 500 MHz VIA Eden™ ULV processor. Part Number: AMOS-3000-1E05A1)   |
|                             | <b>Chipset</b>           | VIA VX700 Unified Digital Media IGP chipset  |
|                             | <b>BIOS</b>              | Award BIOS 4/8 Mbit flash ROM  |
|                             | <b>System Memory</b>     | 1x DDR2 533, 200-pin SDRAM SODIMM socket<br>Up to 1 GB memory size                                 |
| <b>Display</b>              | <b>VGA</b>               | Integrated VIA UniChrome™ Pro II 3D/2D AGP graphics with MPEG-2/4 and WMV9 decoding acceleration   |
|                             | <b>Display Memory</b>    | Optimized Unified Memory Architecture (UMA) Supports up to 128 MB frame buffer using system memory |
|                             | <b>Display Interface</b> | Supports CRT and DVI-D interface   |
| <b>LAN</b>                  | <b>Controller</b>        | 1 x VIA VT6122 Gigabit Ethernet controller   |
|                             | <b>Interface</b>         | 1 x RJ45 connector   |
| <b>System Board Support</b> | <b>Compatibility</b>     | Compatible with EPIA-P700 embedded board   |
| <b>Drive Bay</b>            | <b>DOM Flash Drive</b>   | Driver bay for 44-pin IDE interface Disk On Module (DOM) Flash drive                               |
| <b>Storage Expansion</b>    | <b>HDD bay</b>           | Optional storage sub-system expansion chassis, supporting a 2.5" SATA hard disk drive bay          |
| <b>Cooling System</b>       | <b>Heatsink</b>          | Built-in heatsink and heatpie set  |
| <b>HD Audio</b>             | <b>Controller</b>        | VIA VT1708A High Definition Audio Codec  |
|                             | <b>Interface</b>         | Support Line-in, Line-out, Mic-in  |
| <b>Others</b>               | <b>Watchdog Timer</b>    | System reset. Programmable 1 ~ 255 sec   |
|                             | <b>Serial Ports</b>      | Built-in EPIA-P700 system board . VIA Super I/O LITE VT1212 controller, supporting one COM port    |
|                             | <b>USB</b>               | 4 x USB 2.0 ports  |
|                             | <b>GPIO</b>              | 1 of 2x6-pin headers supports GPIO (2 x GPI, 2 x GPO) + 5V power source                            |
| <b>Chassis Construction</b> | <b>Construction</b>      | Aluminum top cover mixed with copper heatpie. Metal chassis housing                                |
|                             | <b>Material</b>          | Aluminum top cover and SECC front/rear/bottom plate  |
| <b>Front I/O Ports</b>      | <b>Audio Line-in</b>     | 1 x Front-access Line-In port by a 3.5 Ø audio jack connector                                      |
|                             | <b>Audio Line-out</b>    | 1 x Front-access Line-out port by a 3.5 Ø audio jack connector                                     |
|                             | <b>Audio Mic-in</b>      | 1 x Front-access Mic-in port by a 3.5 Ø audio jack connector                                       |
|                             | <b>USB</b>               | 4 x Front-access USB ports by two pairs of double-stack of mini-DIN connectors                     |
|                             | <b>GPIO</b>              | 1 x Front-access GPIO port by a D-Sub 9-pin female connector                                       |
| <b>Rear I/O Ports</b>       | <b>VGA</b>               | 1 x Rear-access VGA port by a D-Sub 15-pin female connector  |
|                             | <b>DVI</b>               | 1 x Rear-access DVI Port by a D-Sub 24-pin female connector metal face plate                       |
|                             | <b>Giga LAN</b>          | 1 x Rear-access Gigabit Ethernet port by a RJ-45 connector   |
| <b>Operating System</b>     | <b>COM</b>               | 1 x Rear-access COM port by a D-Sub 9-pin male connector   |
|                             |                          | Windows XP, Linux, Win CE, XPe   |



## System I/O



## Combination of AMOS-3000 and Sub-system Chassis



## Specifications

|                                    |   |   |
|------------------------------------|---|---|
| <b>Part Number</b>                 | <b>AMOS-3000-1C10A1</b>                   |   |
| <b>Power Supply</b>                | <b>Power Source</b>                       | DC Input 12 V   |
|                                    | <b>Power Input Connector</b>              | DC Power Input connector by 2-pole Phoenix connector  |
|                                    | <b>Power ON/OFF</b>                       | One DC Power on/off switch  |
|                                    | <b>Power Consumption</b>                  | Maximum 15.86 W. Typical 8.11 W   |
|                                    | <b>Input Voltage</b>                      | 12 VDC @ 0.68 A   |
| <b>Mechanical Specifications</b>   | <b>Mounting</b>                           | Supports table mount, wall mount, and VESA mount  |
|                                    | <b>System Indicator</b>                   | 1 x Power on LED (green)<br>1 x HDD LED (red)   |
|                                    | <b>Weight</b>                             | Net 1 kg  |
|                                    | <b>Dimension</b>                          | 135 mm (W) x 45 mm (H) x 131 mm (D). Width 150 mm with mounting bracket   |
| <b>Environmental Specification</b> | <b>Operation Temperature</b>              | Supports from -20 up to 70°C:<br>• -20 to 60° C for C7® 1.0GHz SKU (Part Number: AMOS-3000-1C10A1)<br>• -20 to 70° C for Eden™ ULV 500MHz SKU (optional. Part Number: AMOS-3000-1E05A1) |
|                                    | <b>Relative Humidity</b>                  | Humidity: 0 ~ 90% @ 45°C, non-condensing  |
|                                    | <b>Vibration Loading During Operation</b> | With IDE DOM flash drive 7Grms, IEC 60068-2-64, random, 5 ~ 500Hz, 1 Oct/min, 1hr/axis<br>With Hard Disk Drive, 1Grms, IEC 60068-2-64, random, 5 ~ 500Hz, 1 Oct/min, 1hr/axis           |
|                                    | <b>Shock During Operation</b>             | With IDE DOM flash drive 70G, IEC 60068-2-27, half size, 11ms duration<br>With Hard disk drive 20G, IEC 60068-2-27, half size, 11ms duration  |
|                                    | <b>Certification</b>                      | CE/FCC/CCC Class A  |

## Ordering Information

| Part Number      | CPU Frequency | Description  |
|------------------|---------------|--|
| AMOS-3000-1C10A1 | 1.0 GHz C7®   | 1.0 GHz C7® Based Fanless Ultra Compact Embedded System, with 1 x VGA, 1 x DVI, 1 x COM, 1 x GigaLAN, 4 x USB, HD Audio, DC-in 12V |
| AMOS-3000-2C10A1 | 1.0 GHz C7®   | AMOS-3000-1C10A1 Installed with Storage Chassis, SATA HDD Cable, SATA Power Cable  |
| AMOS-3000-1SZZA1 |               | AMOS-3000 Storage Chassis Kit, with SATA Cable, SATA HDD Cable   |

## Optional Accessories

### External AC-to-DC Adapter and Power Cable

| Part Number  | Description  |
|--------------|--|
| 99G63-020216 | AC-to-DC adapter, DC 12V/5A, 60W, with 2-pole Phoenix Power Plug |
| 99G33-02032C | Power cable, 180 cm, USA type                                    |
| 99G33-02034C | Power cable with PSE mark  |
| 99G33-02033C | Power cable, 180 cm, Europe type                                 |
| 99G33-02031C | Power cable, 180 cm, UK type                                     |

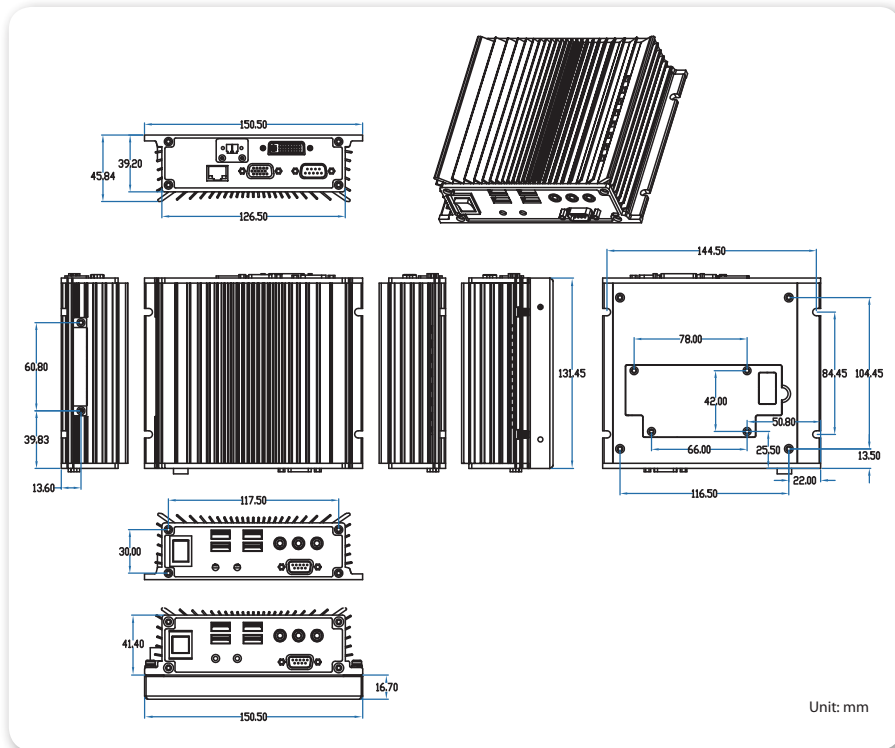
## Optional Accessories

| WLAN USB Module |   |
|-----------------|---|
| Part Number     | Description   |
| EMIO-1530-20A1  | 802.11 b/g Wireless LAN USB module with cable for AMOS-3000, USA    |
| EMIO-1530-30A1  | 802.11 b/g Wireless LAN USB module with cable for AMOS-3000, Eurpoe |

| Embedded OS (Only available for OEM service) |   |
|--|---|
| Part Number                                  | Description   |
| POS-MXPELI-ENS01                             | Windows XP Embedded SP2 Feature Pack 2007 OS image and license for AMOS-3000, English version |
| POS-MCE6LI-ENS01                             | Windows CE 6.0 Professional OS image and license for AMOS-3000, English version               |
| VOS-UMELXI-ENS01                             | Linux Mobile Internet Device Edition OS image For AMOS-3000 English version                   |

| Certified RAM Module, Flash Disk |  |
|----------------------------------|--|
| Part Number                      | Description  |
| 99G06-010328                     | 512MB DDR2 667MHZ SDRAM SODIMM, industrial grade, temperature 0°C ~ 85°C                                 |
| 99G06-010338                     | 1GB DDR2 667MHZ SDRAM SODIMM, industrial grade, temperature 0°C ~ 85°C                                   |
| 99G61-050203                     | 512MB, IDE 44-pin Flash Disk On Module(DOM), industrial grade, wide temperature -40°C ~ 85°C, w/ housing |
| 99G61-050143                     | 1GB, IDE 44-pin Flash Disk On Module(DOM), industrial grade, wide temperature -40°C ~ 85°C, w/ housing   |
| 99G61-050133                     | 2GB, IDE 44-pin Flash Disk On Module(DOM), industrial grade, wide temperature -40°C ~ 85°C, w/ housing   |
| 99G61-050123                     | 4GB, IDE 44-pin Flash Disk On Module(DOM), industrial grade, wide temperature -40°C ~ 85°C, w/ housing   |

## Dimensions



## Packing List

- 1 x Driver CD disk
- 1 x Screw package for mounting purpose
- 1 x VESA mount metal plate
- 1 x Washer rubber for table set up
- 1 x Thermal pad for memory
- 1 x 2-pin Phoenix connector to DC jack cable