

## AMOS Series

### VIA AMOS-1000

Embedded Chassis System  
for Mini-ITX Embedded  
Boards



### Features

- A universal compact embedded chassis supporting Mini-ITX embedded boards
- Additional sub-system chassis for riser cards (PCI, PCIe) and storage (2nd or 3rd HDD, slim ODD) expansion
- Ready for comprehensive I/O expansion, including:
  - Removeable front I/O panel
  - Reserved cutouts for various I/O ports on rear I/O panel
  - Reserved space for mounting LPC-02, PUSB-01, and WLAN modules
- Co-mechanical design for either 120W DC power board (default) or 1U AC ATX PSU (optional)
- WiFi networking options
- Multiple mounting solutions: wall / table mountable



### Specifications

Part Number	AMOS-1000	
<b>Chassis Construction</b>	<b>Construction</b>	Heavy duty steel SECC with ID by painting 1mm alloy
	<b>Dimension</b>	287 mm (W) x 70 mm (H) x 246 mm (D)
	<b>Weight</b>	2.3 kg
<b>Front I/O Ports</b>	All connections are additionally through the I/O panel (Please refer to the product specifications of VIA Mini-ITX series for more extensions)	
<b>Rear Reserved I/O Cutouts</b>	<b>COM</b>	4 x Rear-access COM ports by a 4 x D-Sub 9-pin connectors (Optional LPC-02 module to support 4 COM ports. COM1 & COM2 are selectable for RS232/422/485, and COM3 & COM4 are dedicated for RS232)
	<b>USB</b>	4 x Rear-access USB ports (Optional PUSB-01 module to support 4 additional USB 2.0 ports)
	<b>Parallel</b>	1 x Rear-access parallel port by a D-Sub 25-pin female connector
	<b>DVI</b>	1 x Rear-access DVI port by a D-Sub 24-pin female connector (Optional DVI-03 or DVI-04 module with DVI cable to support DVI connector)
	<b>GPIO</b>	1 x Rear-access GPIO port by DB-9 male connector (Optional GPIO cable to support GPIO connector)
<b>Board-Level Support</b>	<b>Compatibility</b>	Compatible with various VIA Mini-ITX embedded boards
<b>Drive Bay</b>	<b>HDD Bay</b>	Default support 1 x 2.5" SATA hard disk drive bay on bottom plate (Additional support 2nd or 3rd 2.5" SATA hard disk drive bay in optional storage chassis kit)
	<b>Compact Flash</b>	Supports a Compact Flash card with a Mini-ITX board comprising Compact Flash socket
	<b>DOM Flash Drive</b>	Supports a Disk On Module (DOM) Flash
<b>Cooling System</b>	<b>System Fan</b>	1 x 5cm*5cm system fan
<b>Power Supply</b>	<b>Power Source</b>	DC Input DC 12V ~ 24V
	<b>Power Input Connector</b>	DC power input connector by 2-pole Phoenix connector
	<b>Power ON/OFF</b>	1 x power on/off switch
	<b>Power Board</b>	Default support PWB-M120 DC to DC power board
	<b>Power Supply Unit</b>	Optional support 1U AC power supply
<b>Mechanical Specifications</b>	<b>Mounting</b>	Supports table mount, wall mount
	<b>System Indicator</b>	1 x Power on LED (green) 1 x HDD LED (red)
<b>Environmental Specifications</b>	<b>Operation Temperature</b>	Temperature: 0°C ~ 45°C
	<b>Relative Humidity</b>	Humidity: 0 ~ 90% @ 45°C, non-condensing
	<b>Storage Temperature</b>	-10°C ~ 65 °C@ 90%, non-condensing
	<b>Vibration Loading During Operation</b>	1 Grms, IEC 60068-2-64, random, 5 ~ 500 Hz, 1 oct/min, 1hr/axis
	<b>Shock During Operation</b>	20 G, IEC 60068-2-27, half sine, 11 ms duration
<b>Operating System</b>	Windows XP, Linux, WinCE, XPe	

## System I/O



\* Front I/Os are subject to the I/O panel of Mini-ITX boards.



\* Reserved I/O cutouts on rear panel.

## Combination of AMOS-1000 and Sub-system Chassis



## Ordering Information

Part Number	Description
AMOS-1000-1MZZA1	Universal Chassis for Mini-ITX Boards, with 120W Power Board, 1 x 2.5" HDD Drive Bay, Reserved Cutouts of 4 x COM, 4 x USB, 1 x DVI, 1 x D-sub 9-pin I/O, 1 x Parallel, Space for 1 x WLAN USB Module
AMOS-1000-1MSZA1	AMOS-1000-1MZZA1 with Storage Sub-system Chassis, Additional Support 2 x 2.5" HDD Drive Bay, 1 x Slim ODD Bay
AMOS-1000-1MRZA1	AMOS-1000-1MZZA1 with Riser Card Sub-system Chassis, Additional Support 2-slot PCI Card or 1-slot PCIE Card
AMOS-1000-1MSRA1	AMOS-1000-1MZZA1 with Storage and Riser Card Sub-system Chassis, Additional Support 2 x 2.5" HDD Drive Bay, 1 x Slim ODD Bay, 2-slot PCI Card

## Ordering Information (Built-in Mini-ITX Board)

Part Number	Built-in Mini-ITX Board	Description
AMOS100009002-T	EPIA-M700 (1.5GHz VIA C7® CPU)	AMOS-1000-1MZZA1 Embedded Chassis, with EPIA-M700 Board
AMOS100009004-T	EPIA EX (1.5GHz VIA C7® CPU)	AMOS-1000-1MZZA1 Embedded Chassis, with EPIA EX Board
AMOS100009005-T	EPIA EN (1.5GHz VIA C7® CPU)	AMOS-1000-1MZZA1 Embedded Chassis, with EPIA EN Board
AMOS100009006-T	VB8001 (1.6GHz VIA Nano™ CPU)	AMOS-1000-1MZZA1 Embedded Chassis, with VB8001 Board

## Optional Accessories

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

Part Number	Description
99G63-020186	AC-to-DC adapter, 2-pole, DC 19V, 90W
99G33-02058C	Power Cable, 180 cm, USA type
99G33-02057C	Power Cable, 180 cm, Europe type

### RAM Module, DOM, Compact Flash

Part Number	Description
99G06-010198	512MB DDR2 667MHZ DRAM DIMM ,Industrial Grade, 0°C ~ 85°C
99G06-010208	1GB DDR2 667MHZ DRAM DIMM ,Industrial Grade, 0°C ~ 85°C
99G61-050073	1GB, IDE 40-pin Flash Disk On Module(DOM) , Standard Grade ,0°C ~ 70°C
99G61-050083	2GB, IDE 40-pin Flash Disk On Module(DOM) , Standard Grade ,0°C ~ 70°C
99G61-060041	1GB Compact Flash Disk, Standard Grade, 0°C ~ 70°C
99G61-060051	2GB Compact Flash Disk, Standard Grade, 0°C ~ 70°C
99G61-060061	4GB Compact Flash Disk, Standard Grade, 0°C ~ 70°C

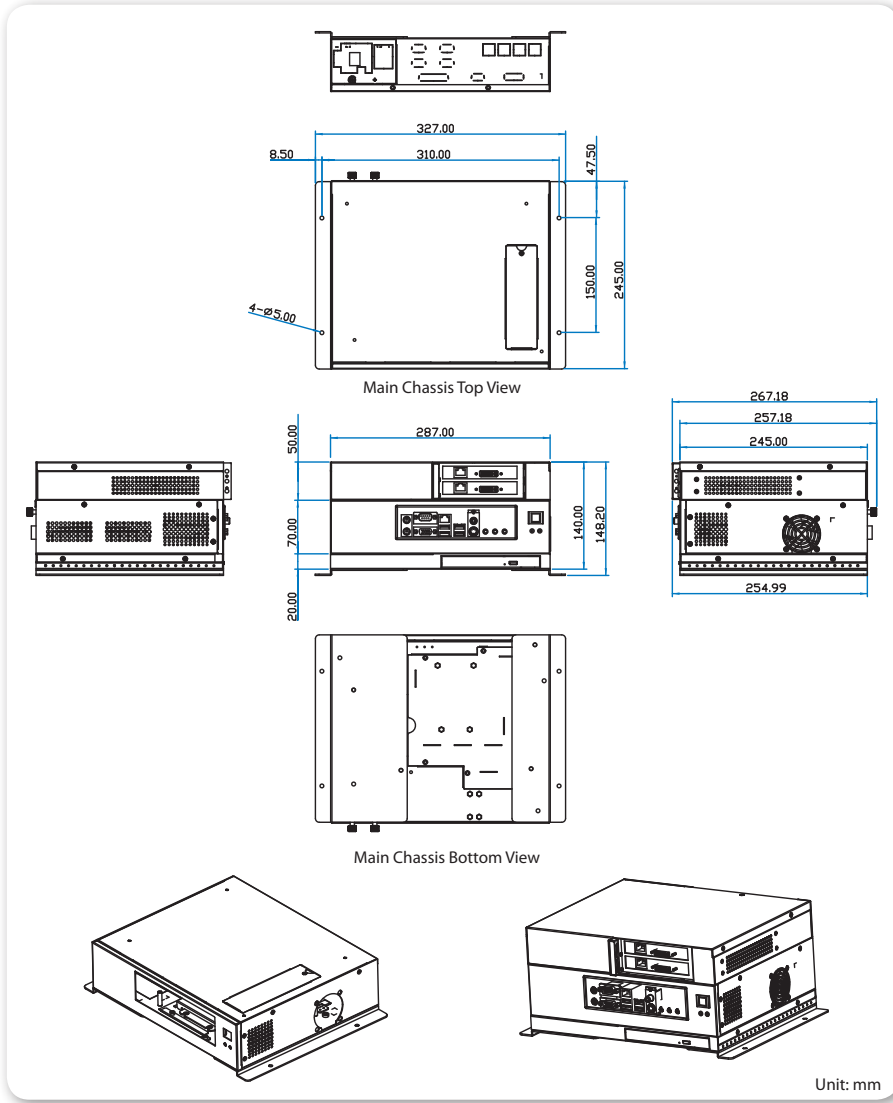
### Slim ODD

Part Number	Description
99G62-030011	DVD RW, 8X, SATA interface

## Optional Accessories

WLAN USB Module	
Part Number	Description
EMIO-1530-40A1	802.11 b/g Wireless LAN USB Module with cables , USA Type (For EPIA-M700, EX, EN, CN, LT, VB7007, VB7001)
EMIO-1530-50A1	802.11 b/g Wireless LAN USB Module with cables , Europe Type (For EPIA-M700, EX, EN, CN, LT, VB7007, VB7001)
EMIO-1530-60A1	802.11 b/g Wireless LAN USB Module with cables , USA Type (For EPIA-N700, NR, VB8001, VB7002)
EMIO-1530-70A1	802.11 b/g Wireless LAN USB Module with cables , Europe Type (For EPIA-N700, NR, VB8001, VB7002)

## Dimensions



## Packing List

- 1 x Screws package for boards
- 1 x Screws package for mount bracket
- 1 x Cable tie and tie mount package
- 1 x Left wall mount bracket
- 1 x Right wall mount bracket
- 1 x 2-pin Phoenix connector to DC jack cable
- 1 x SATA HDD cable
- 1 x Washer rubber package