VIA

AMOS-3002

Ultra-compact fanless system for embedded industrial applications ideally suited for demanding environments
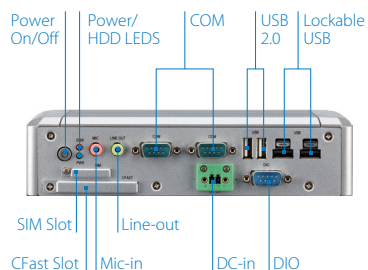

Features

■ Ultra compact, ruggedized form factor with multiple wall/table/VESA mounting solutions

■ High-performance fanless 1.0GHz VIA Eden® X2 processor

■ DX9 graphics with MPEG-2/WMV9/VC1/H.264 decoding acceleration

■ Rich I/O feature set including lockable USB, RS-232/422/485, and GPIO

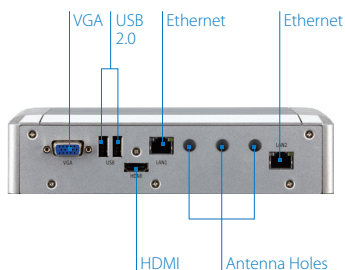■ Support for dual independent VGA + HDMI displays

Specifications

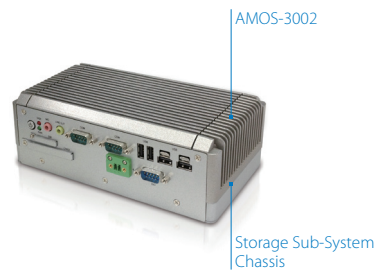| Model Name	AMOS-3002
Processor	1.0GHz VIA Eden® X2
Chipset	VIA VX900H Media System Processor
BIOS	AMI BIOS, 8Mbit Flash memory
System Power Management	Wake-on LAN, keyboard power-on, timer power-on, system power management, AC power failure recovery, Watch Dog timer control
System Memory	1 DDR3 1066 SODIMM socket Up to 4GB memory size
Storage	Supports 1 CFast Flash drive Supports 1 2.5" SATA HDD/SSD (AMOS-3002-2D10A2)
Graphics	Integrated VIA Chrome®9 HD DX9 3D/2D graphics with MPEG-2, WMV9, VC1 and H.264 video decoding acceleration
Audio	VIA VT2021 High Definition Audio Codec
Display I/O	1 HDMI port 1 VGA port supporting VGA resolutions up to 1920 x 1200 pixels Dual independent VGA + HDMI display at different resolutions, pixel depths, and refresh rates
USB	6 USB 2.0 ports, including 2 lockable USB ports for secure connections
LAN	VIA VT6130 PCIe Gigabit Ethernet controller
COM	Integrated in VX900H
Expansion I/O	1 miniPCIe slot
Front Panel I/O	1 CFast Flash slot 2 USB 2.0 ports 2 COM ports for 1 RS-232 and 1 RS-232/422/485 1 DIO port for 8-bit GPIO 2 Lockable USB 2.0 ports 2 Audio jacks: Line-in and Mic-out 1 SIM card slot 1 Power on/off button 1 Red LED for HDD activity 1 Green LED for power status 1 2-pole Phoenix DC jack
Back Panel I/O	2 USB 2.0 ports 1 HDMI port 1 VGA port 2 Gigabit Ethernet ports 3 Antenna holes for 3G/Wi-Fi
Power Supply	12V DC-in (typical: 23W)
Operating System	Windows 7, WES 7, Linux
Watch Dog Timer	System reset; programmable 1-255 sec
Mechanical Construction	Aluminum top chassis housing Metal chassis housing Dual removable front & rear metal face plate
Mounting	Wall/table/VESA mountable

CE FC

Front Panel Exrternal I/O

Back Panel External I/O

AMOS-3002 and Sub-system Chassis

Power On/Off · Power/HDD LEDS · COM · USB 2.0 · Lockable USB

SIM Slot · Line-out

CFast Slot · Mic-in · DC-in · DIO

VGA · USB 2.0 · Ethernet · Ethernet

HDMI · Antenna Holes

AMOS-3002

Storage Sub-System Chassis

Specifications

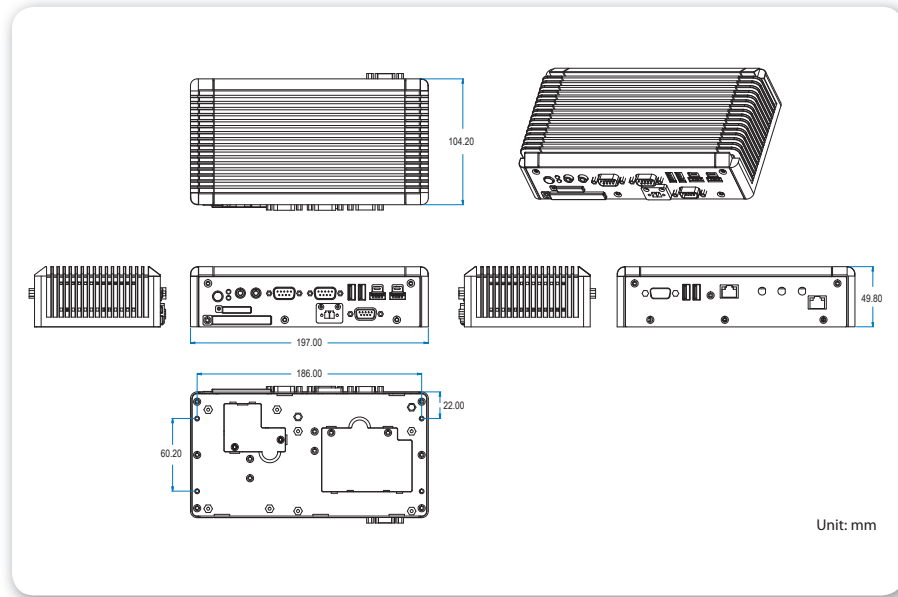| Model Name	AMOS-3002-1D10A2	AMOS-3002-2D10A2
Dimensions	197mm(W) x 49mm(H) x 104mm(D) (7.75" x 1.92" x 4.09")	197mm(W) x 66mm(H) x 104mm(D) (7.75" x 2.59" x 4.09")
Weight	1.4kg (3.08lbs)	1.8kg (4.02lbs)
Operating Temperature	-20°C ~ 60°C 0°C ~ 45°C when system equipped with 2.5" hard disk drive (AMOS-3002-2D10A2)	
Storage Temperature	-20°C ~ 70°C	
Operating Humidity	0% ~ 95% (relative humidity; non-condensing)	
Vibration Loading During Operation	With CFast Flash drive: 5Grms, IEC 60068-2-64, random, 5 ~ 500Hz, 1hr/axis	
Shock During Operation	With CFast Flash drive: 50G, IEC 60068-2-27, half size, 11ms duration	
Compliance	CE/FCC	

Ordering Information

Part Number	CPU Frequency	Description
AMOS-3002-1D10A2	VIA Eden® X2 @ 1.0GHz	1.0GHz VIA Eden® X2 CPU based fanless embedded system with HDMI, VGA, 4 USB 2.0, 2 Lockable USB 2.0 , 2 COM, DIO, 2 Gigabit Ethernet, CFast Flash slot, SIM card slot, miniPCIe slot, 12V DC-in
AMOS-3002-2D10A2	VIA Eden® X2 @ 1.0GHz	1.0GHz VIA Eden® X2 CPU based fanless embedded system with HDMI, VGA, 4 USB 2.0, 2 Lockable USB 2.0, 2 COM, DIO, 2 Gigabit Ethernet, 2.5" SATA HDD/SSD Bay, CFast Flash slot, SIM card slot, miniPCIe slot, 12V DC-in

Optional Accessories

External AC-to-DC Adapter and Power Cord	
Part Number	**Description**
99G63-020316	AC-to-DC adapter, 2-pole Phoenix connector, DC 12V/5A, 60W
99G33-02032C	Power cord, 180cm, USA type
99G33-02033C	Power cord, 180cm, Europe type
99G33-02034C	Power cord with PSE mark, 180cm for Japan market

Wireless Accessories	
Part Number	**Description**
EMIO-1541-00A1	VNT9485 IEEE 802.11 b/g/n miniPCIe Wi-Fi module with assembly kit and antenna
EMIO-2550-00A1	3.75G HSPA/UMTS mobile broadband full size miniPCIe module with GPS

Dimensions

197.00

104.20

49.80

186.00

22.00

60.20

Unit: mm

Packing List

Items
AMOS-3002 system
Phoenix plug to DC jack
Thermal pad for memory
Thermal pad for CFast
VESA bracket
Wall mount bracket
Rubber feet pack

* All product specifications are subject to change without notice. Update: May 09, 2016.

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