

Industrial Systems x86

VIA

AMOS-3002

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



Features

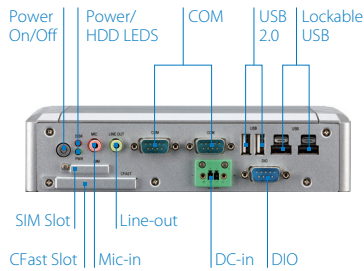
- Ultra compact, ruggedized form factor with multiple wall/table/VESA mounting solutions
- High-performance fanless 1.0GHz VIA Eden® X2 processor
- DX9 graphics with MPEG-2/WMV9/VC1/H.264 decoding acceleration
- Rich I/O feature set including lockable USB, RS-232/422/485, and GPIO
- Support for dual independent VGA + HDMI displays

Specifications

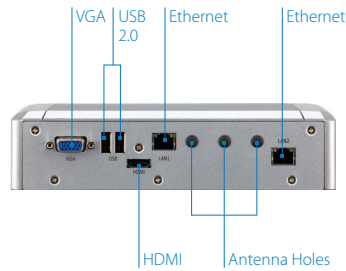
Model Name	AMOS-3002
Processor	1.0GHz VIA Eden® X2
Chipset	VIA VX900H Media System Processor
BIOS	AMI BIOS, 8Mbit Flash memory
System Memory	1 DDR3 1066 SODIMM socket Up to 4GB memory size
Storage	Supports 1 CFast Flash drive Supports 1 2.5" SATA HDD/SSD (AMOS-3002-2D10A2)
Graphics	Integrated VIA C-9 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	2 USB 2.0 ports 2 Lockable 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 Audio jacks: Line-in and Mic-out 1 CFast Flash slot 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	1 HDMI port 1 VGA port 2 USB 2.0 ports 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
VIA Smart ETK	BIOS flash tool, Hardware monitor, Watchdog timer, GPIO
Operating Temperature	-20°C ~ 60°C 0°C ~ 45°C when system equipped with 2.5" hard disk drive (AMOS-3002-2D10A2)
Operating Humidity	0% ~ 95% (relative humidity; non-condensing)
Storage Temperature	-20°C ~ 70°C
Vibration Loading During Operation	With CFast Flash drive: 5Grms, IEC 60068-2-64, random, 5 ~ 500Hz, 1hr/axis



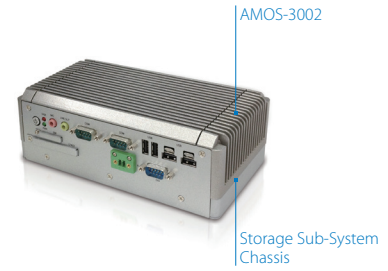
Front Panel External I/O



Back Panel External I/O



AMOS-3002 and Sub-system Chassis



Specifications

Model Name	AMOS-3002-1D10A2	AMOS-3002-2D10A2
Shock During Operation	With CFast Flash drive: 50G, IEC 60068-2-27, half sine, 11ms duration	
Mechanical Construction	Aluminum top chassis housing Metal chassis housing Dual removable front & rear metal face plate	
Mounting	Wall/table/VESA mountable	
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)
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, miniPCIe slot, SIM card slot, CFast Flash 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, miniPCIe slot, SIM card slot, 2.5" SATA HDD/SSD Bay, CFast Flash slot, 12V DC-in

Optional Accessories

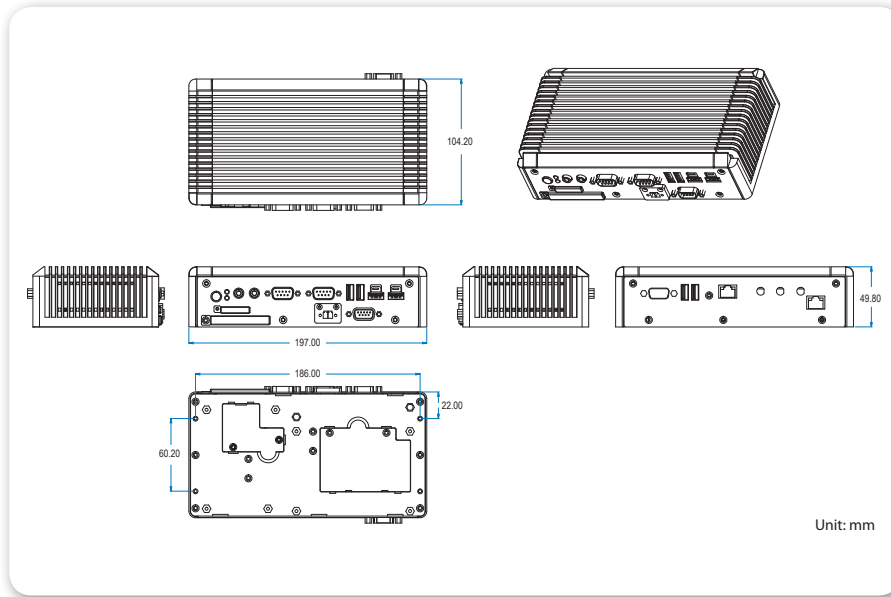
External AC-to-DC Adapter and Power Cord

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
00GO27100BU2B0D0	VNT9271 IEEE 802.11 b/g/n USB Wi-Fi dongle
EMIO-2531-00A1	VAB-820-W-M IEEE 802.11 b/g/n miniPCIe Wi-Fi & Bluetooth module with assembly kit and antenna
EMIO-2550-00A1	3.75G HSPA/UMTS mobile broadband full size miniPCIe module with GPS, SIM card slot, assembly kit and antenna

Dimensions



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