

Semi-Embedded Systems

VIA

ARTiGO A1200

Compact Fanless System
with HDMI, VGA, Dual
GigaLAN, USB, COM and
CFast



Features

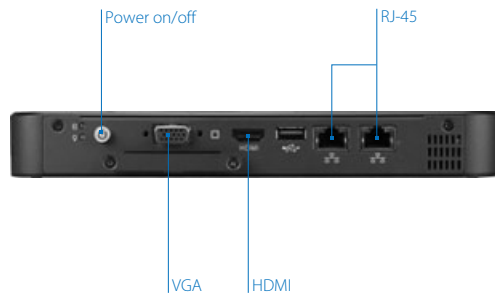
- Powered by VIA dual core Eden™ X2 processor
- Integrated C-9 HD DX9 3D/2D video processor with MPEG-2, WMV9/VC1, H.264 video decoding acceleration
- Supports up to 4GB DDR3 SDRAM memory size
- Supports two Gigabit Ethernet
- Supports four USB 2.0
- Supports one 2.5" SATA hard disk drive bay
- Supports one mini-PCIe socket with one SIM slot
- Supports one CFast socket
- Supports HDMI and VGA dual independent display

Specifications

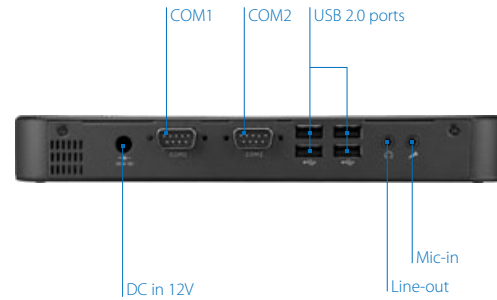
Part Number	ATG-A1200-1D10A1	
Computing System	Processor	1.0GHz VIA Eden™ X2
	Front Side Bus	800 MHz
	L2 Cache	2MB
	Chipset	VIA VX900 Media System Processor
	BIOS	AWARD BIOS, 8 MBit SPI Flash BIOS
	System Power Management	Timer power-on ACPI supported
Memory	Technology	1 x 204-pin SODIMM socket, support DDR3 1066 SDRAM
	Max. Capacity	Up to 4GB memory size
Graphic	Controller	Integrated VIA C-9 HD DX9 3D/2D video processor with MPEG-2, WMV9/VC1, H.264 video decoding acceleration
	Display Memory	Optimized Unified Memory Architecture (UMA), Supports up to 512 MB frame buffer using system memory
	CRT Interface	Support 1 x External VGA port by a DB-9 connector Pixel resolution support up to 2560 x 1600
	HDMI Interface	Support 1 x HDMI port connector
	Dual View	Dual independent display of CRT & HDMI at different resolutions, pixel depths, and refresh rates
Dual Gigabit Ethernet	Controller	Built-in system dual VIA VT6130 Gigabit Ethernet controllers
	Interface	Supports 2 x RJ45 connectors Supports Wake On LAN (WOL) Supports Pre-boot Execution Environment (PXE)
	HD Audio	Controller VIA VT2021 blue-ray High Definition audio codec Interface Supports 2 x 3.5Φ audio jack as Line-out & Mic-in
USB 2.0	Controller	Integrated USB 2.0 host controller built-in VX900 IGP chipset on system board
	Interface	Supports 4 x USB 2.0 host ports
Serial Ports	Controller	Fintek F81801 LPC I/O controller
	Interface	Supports 2 x RS-232 as default of COM1 & COM2 Optional support RS-422/RS-485 at COM2
Storage	HDD	Built-in 1 x hard disk drive bay space for 2.5" SATA hard disk or 2.5" Flash SSD
	CFast	Built-in 1 x CFast socket, support Type I/II of CFast flash disk
System Indicator	Power Status LED	1 x Red color LED
	HDD Activity LED	1 x Green color LED
Watch Dog Timer	Output	System reset
	Interval	Programmable 1~255 sec



Front Panel External I/O



Rear Panel External I/O



Specifications

Part Number	ATG-A1200-1D10A1	
Front Panel External I/O Connectors	Power Button	1 x ATX power on/off switch
	Power Status LED	1 x Green color LED
	HDD Activity LED	1 x Red color LED
	Power On/Off Switch	1 x Power on/off button
	VGA	1 x D-Sub 15-pin female connector
	HDMI	1 x HDMI connector
	Dual Gigabit Ethernet	2 x RJ45 connectors, support dual Gigabit Ethernet connections
Rear Panel External I/O Connectors	CFast	1 x CFast Flash disk socket
	Power Input	1x DC jack power input connector
	Dual COM	2 x RS-232 ports as COM1 and COM2 by 2 DB-9 connectors
	Quad USB 2.0 Host	4 x USB 2.0 mini-DIN connectors
Left Side Panel External I/O	Audio	2 x 3.5Φ audio jack connectors as Line-out and Mic-in
	Antenna Holes	Reserved 2 x Antenna holes for WLAN or 3G mini PCIe adapters Located at left side panel of system
Power Supply	Power Input	1x DC jack power input connector
	Input Voltage	Built-in system DC-to-DC converter Accepts power Input of DC 12V Supports ATX mode
	Fuse Rating	7A @ 125V
Mechanical	Construction	Aluminum alloy
	Mounting	Optional support wall/table/VESA mount brackets
	Dimensions	234 mm (W) x 30 mm (H) x 124 mm (D) (9.21" x 1.18" x 4.88")
	Weight	Net 1.2 kg
Environmental Specification	Operating Temperature	0 °C up to 45°C
	Storage Temperature	-20°C ~ 60 °C
	Relative Humidity	0 ~ 90% @ 45°C, non-condensing
	Vibration Loading During Operation	When system is running with CFast flash disk only is : 1Grms, IEC 60068-2-64, random, 5 ~ 500Hz, 1 Oct./min, 1hr/axis
	Shock Loading During Operation	When system is running with CFast flash disk only is 10G, IEC 60068-2-27, half size, 11ms duration

Ordering Information

Part Number	System Built-in CPU	Description
ATG-1200-1D10A1	1.0GHz Eden™ X2	1.0GHz VIA Eden™ X2 CPU Based Fanless Embedded System with 1 VGA,1 HDMI, 4 USB 2.0, 2 GigaLAN, 2 COM, 1 CFast Socket, 1 SATA, DC-in 12V and US Power Cord
ATG-A1200-2D10A1	Eden X2	1.0GHz VIA Eden™ X2 CPU Based Fanless Embedded System with 1 VGA,1 HDMI, 4 USB 2.0, 2 GigaLAN, 2 COM, 1 CFast Socket, 1 SATA, DC-in 12V and EU Power Cord
ATG-A1200-3D10A1	Eden X2	1.0GHz VIA Eden™ X2 CPU Based Fanless Embedded System with 1 VGA,1 HDMI, 4 USB 2.0, 2 GigaLAN, 2 COM (RS-232), 1 CFast Socket, 1 SATA, DC-in 12V and JP Power Cord
ATG-A1200-4D10A1	Eden X2	1.0GHz VIA Eden™ X2 CPU Based Fanless Embedded System with 1 VGA,1 HDMI, 4 USB 2.0, 2 GigaLAN, 2 COM (RS-232), 1 CFast Socket, 1 SATA, DC-in 12V and CN Power Cord

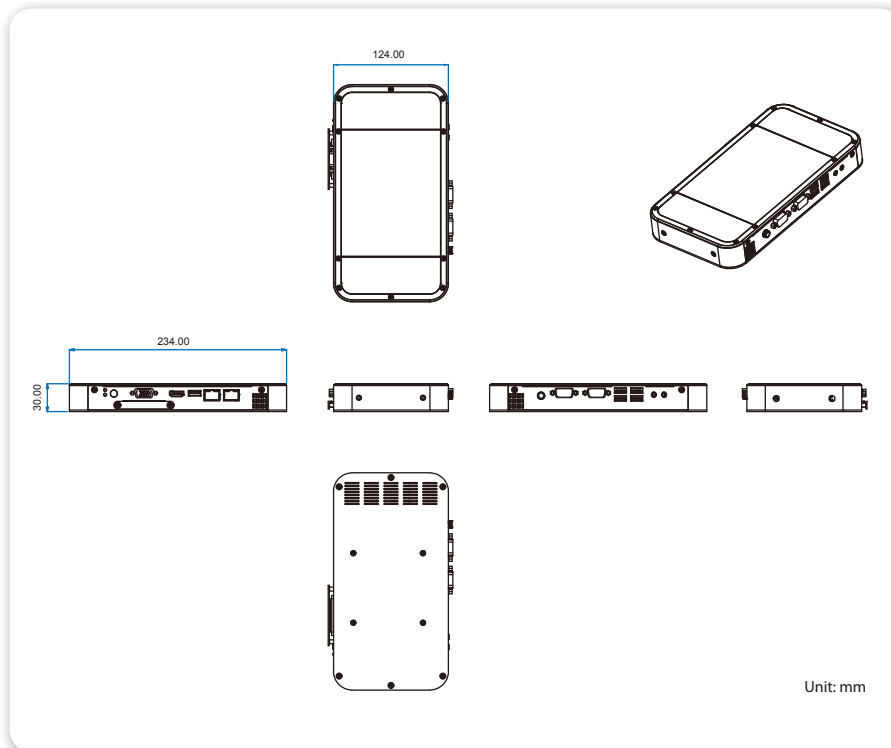
Embedded OS (Only available for T-Parts OEM service)

Part Number	Description
POS-MEXSLI-ENS16	Windows XP Embedded Standard Image & License For ARTiGO-A1200(EITX-2000) English Version
POS-ME7SLI-ENS32	Windows Embedded Standard 7 32Bit SP1 Image & License For ARTiGO-A1200(EITX-2000) English Version
POS-ME7SLI-JPO03	Windows Embedded Standard 7 32Bit SP1 Image & License For ARTiGO-A1200(EITX-2000) Japan Version
POS-DLNXXI-ENS15	Debian Linux Image only For ARTiGO-A1200(EITX-2000) English Version v.1.0

Optional Accessories

Part Number	Description
99G42-09288E	Mechanism kit, wall mount bracket 116mmx116mmx18.4mm
EMIO-1537-00A2	Wireless Mini PCIe IEEE 802.11b/g/n standard assembly kit

Dimensions



Packing List

- 1 x ARTiGO A1200
- 1 x AC/DC power adapter
- 1 x Power cable (180 cm, 71")
- 4 x HDD screws
- 1 x Installation guide
- 1 x SATA ribbon cable