

VIA

ARTiGO A900

Fanless ultra-compact Android system for interactive kiosk, digital signage, home automation, HMI, and other IoT applications



Features

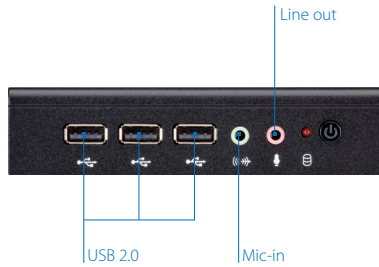
- High-performance 1.0GHz VIA Elite E1000 Cortex-A9 dual-core SoC
- Advanced 2D/3D graphics and video engine with Open GL ES 3.0 hardware acceleration support
- Mini HDMI-out port and optional (project-based) Mini HDMI-in port
- Rich I/O connectivity, including COM, Digital I/O, and USB 2.0 ports
- Android 4.3 BSP with VIA SMART ETX

Specifications

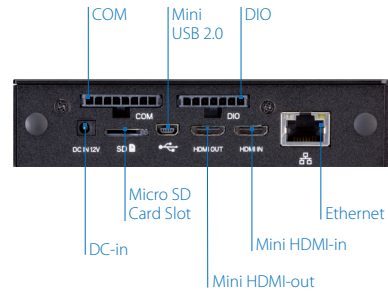
Model Name	ARTiGO A900
Processor	1.0GHz VIA Elite E1000 Cortex-A9 dual-core SoC
System Memory	2GB DDR3 SDRAM onboard
Storage	4GB eMMC Flash memory 1 mSATA slot
Graphics	3 integrated, independent 2D/3D and video processing units Graphics engine supporting OpenGL® ES 3.0 hardware acceleration Supports MPEG-2, VC-1 and H.264 video decoding up to 1080p Supports H.264 encoding
LAN	Realtek RTL8111G PCIe Gigabit Ethernet controller (WOL support)
Audio	Wolfson WM8960 Audio Codec
HDMI	Integrated HDMI 1.4 transmitter
Expansion I/O	1 miniPCIe slot
Front Panel I/O	3 USB 2.0 ports 2 Audio jacks: Line-out and Mic-in 1 Power on/off button with built-in LED 1 Red LED for mSATA status
Back Panel I/O	1 Mini USB 2.0 port 2 Mini HDMI ports for HDIM-in (optional, project based support) and HDMI-out 7 pin DIO connector supports 4-bit GPIO (2 GPI + 2 GPO) 8 pin COM connector (RS232/485) 1 Gigabit Ethernet port 1 Micro SD card slot 2 Antenna holes for 3G or Wi-Fi (manufacturing option) 1 DC-in jack
Bottom Panel I/O	1 miniPCIe slot 1 mSATA slot
Power Supply	12V DC-in (typical: 5W)
Operating System	Android 4.3
Operating Temperature	-5°C ~ 50°C
Operating Humidity	0% ~ 90% @ 45° C (non-condensing)
Vibration Loading during Operation	With onboard eMMC and mSATA 5Grms, IEC60068-2-64, random, 5~500Hz, 1 Oct./min, 1hr/axis
Shock during Operation	With onboard eMMC and mSATA 50G, IEC60068-2-27, half size, 11ms duration
Dimensions	125mm(W) x 30mm(H) x 125mm(D) (4.92" x 1.18" x 4.92")
Weight	0.525kg (1.15lbs)
Mounting	VESA mount (100mm x 100mm) (optional)
Mechanical Construction	Aluminum top cover Metal chassis housing
Compliance	CE/FCC/CCC



Front Panel External I/O



Rear Panel External I/O



Ordering Information

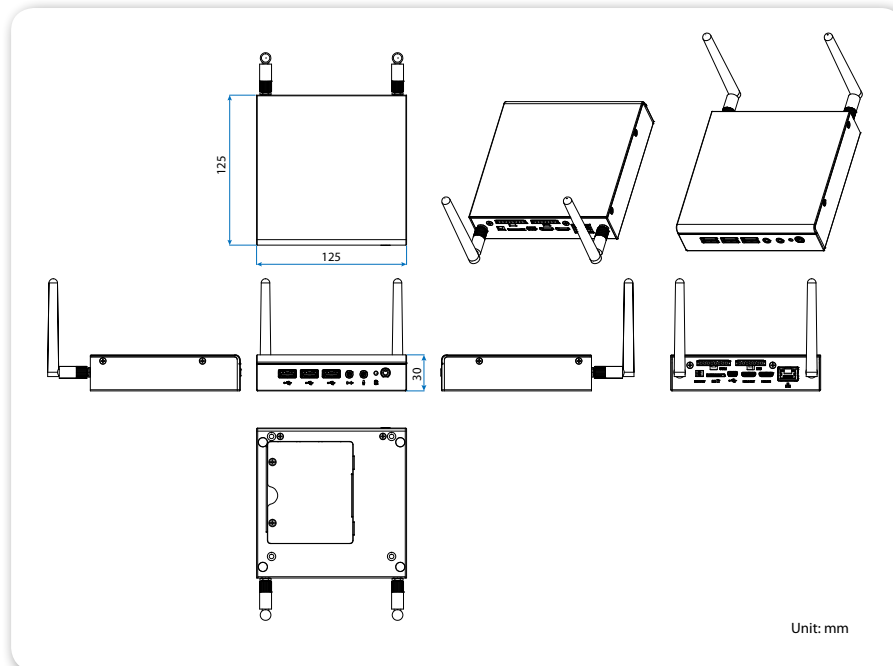
Part Number	System Built-in CPU	Description
ATG-A900-1D10A1	1.0GHz VIA Elite E1000	Android System with 2GB DDR3 RAM, 4GB eMMC, 3 USB 2.0, Mini USB 2.0, COM, GPIO, Gigabit Ethernet, 2 Mini HDMI for in and out, Micro SD card slot, 1 miniPCle slot, 1 mSATA connector, 12V DC-in

Optional Accessories

Wireless Accessories

Part Number	Description
00GO27100BU2B0D0	VNT9271BU0DB IEEE 802.11b/g/n USB Wi-Fi dongle
EMIO-1541-00A1	VNT9485BE0CW IEEE 802.11b/g/n miniPCle Wi-Fi module with assembly kit
EMIO-2550-00A1	Ublox 3.75G HSPA/UMTS mobile broadband full size miniPCle module with GPS and SIM card slot (*Note: GPS function is not currently supported for ARTIGO A900)

Dimensions



Packing List

- ARTIGO A900 system
- AC-to-DC adapter
- Power cord (USA type)
- COM cable
- DIO cable
- Jumper cap
- Rubber feet

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