

VIA

## ARTiGO A900

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



### Features

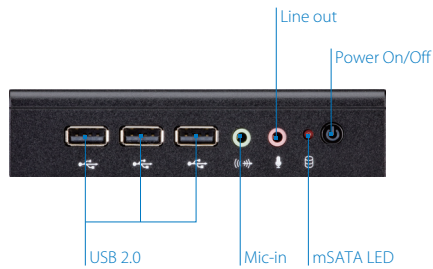
- High-performance 1.0GHz VIA Elite E1000 Cortex-A9 dual-core SoC
- Advanced 3D/2D graphics and video engine with Open GL ES 3.0 hardware acceleration support
- Mini HDMI-out port
- Rich I/O connectivity, including COM, Digital I/O, and USB 2.0 ports
- Android 4.4.2 BSP with VIA Smart ETK

### Specifications

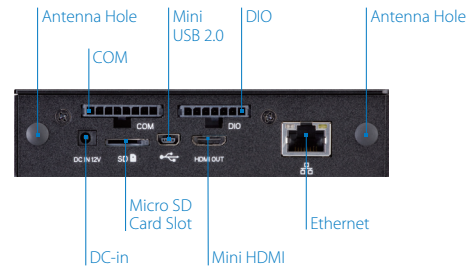
<b>Model Name</b>	<b>ARTiGO A900</b>
<b>Processor</b>	1.0GHz VIA Elite E1000 Cortex-A9 dual-core SoC
<b>System Memory</b>	2GB DDR3 SDRAM onboard
<b>Storage</b>	4GB eMMC Flash memory 1 mSATA slot
<b>Graphics</b>	3 integrated, independent 3D/2D video processing units Graphics engine supporting OpenGL® ES 3.0 hardware acceleration Supports MPEG-2, VC1 and H.264 video decoding up to 1080p
<b>LAN</b>	Realtek RTL8111G PCIe Gigabit Ethernet controller (WOL support)
<b>Audio</b>	Wolfson WM8960 Audio Codec
<b>HDMI</b>	Integrated HDMI 1.4 transmitter
<b>Expansion I/O</b>	1 miniPCIe slot
<b>Front Panel I/O</b>	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
<b>Back Panel I/O</b>	1 Mini USB 2.0 port 1 Mini HDMI port 1 7-pin DIO connector supports 4-bit GPIO (2 GPI +2 GPO) 1 8-pin COM connector (RS232/485) 1 Gigabit Ethernet port 1 Micro SD card slot 2 Antenna holes for 3G/Wi-Fi (manufacturing option) 1 DC-in jack
<b>Bottom Panel I/O</b>	1 miniPCIe slot 1 mSATA slot
<b>Power Supply</b>	12V DC-in (typical: 5W)
<b>Operating System</b>	Android 4.4.2
<b>VIA Smart ETK</b>	Restart, RTC Wake-up, Suspend, Wake On LAN, Watchdog timer, GPIO, I <sup>2</sup> C, UART
<b>Operating Temperature</b>	-5°C ~ 50°C
<b>Operating Humidity</b>	0% ~ 90% @ 45° C (non-condensing)
<b>Vibration Loading During Operation</b>	With onboard eMMC and mSATA 5Grms, IEC60068-2-64, random, 5~500Hz, 1hr/axis
<b>Shock During Operation</b>	With onboard eMMC and mSATA 50G, IEC60068-2-27, half sine, 11 ms duration
<b>Mechanical Construction</b>	Aluminum top cover Metal chassis housing
<b>Mounting</b>	VESA mount (100mm x 100mm) (optional)
<b>Dimensions</b>	125mm(W) x 30mm(H) x 125mm(D) (4.92" x 1.18" x 4.92")
<b>Weight</b>	0.525kg (1.15lbs)
<b>Compliance</b>	CCC, CE, FCC



## Front Panel External I/O



## Back Panel External I/O



## Ordering Information

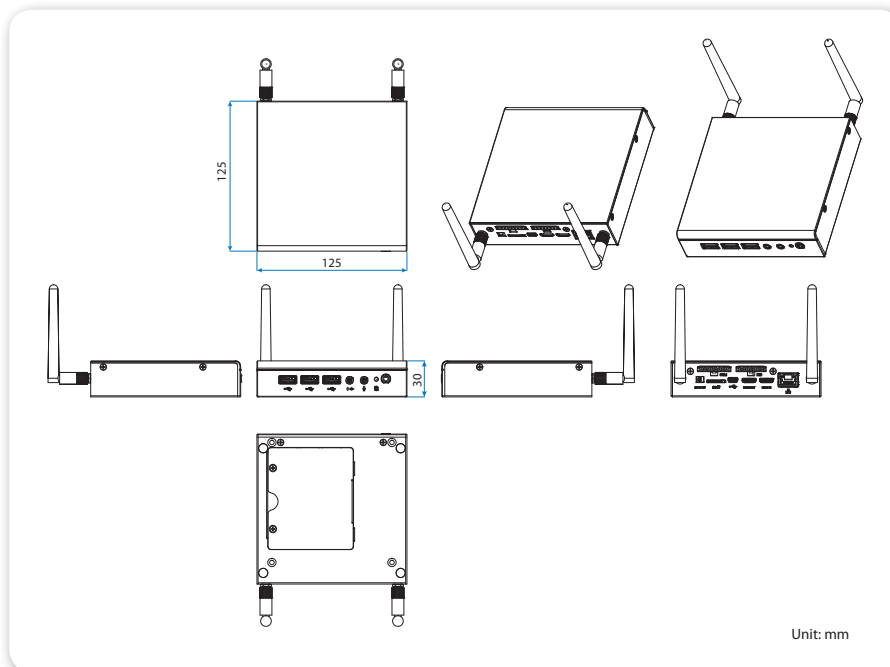
Part Number	SoC Frequency	Description
ATG-A900-1D10A1	VIA Elite E1000 Cortex-A9 dual-core SoC @ 1.0GHz	Android System with 1.0GHz VIA Elite E1000 Cortex-A9 SoC, 2GB DDR3 RAM, 4GB eMMC, Mini HDMI, 3 USB 2.0, Mini USB 2.0, COM, GPIO, Gigabit Ethernet, miniPCIe slot, Micro SD card slot, mSATA connector, 12V DC-in

## Optional Accessories

### Wireless Accessories

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

## Dimensions



## Packing List

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