

VIA

ARTiGO A900

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



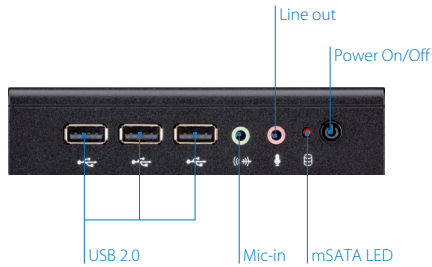
Features

- 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

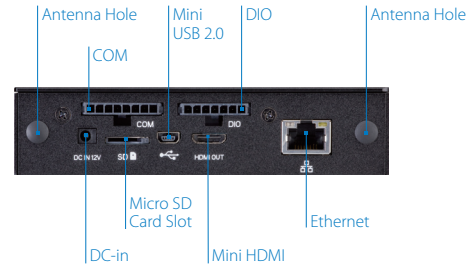
Specifications

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 3D/2D 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
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 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
Bottom Panel I/O	1 miniPCIe slot 1 mSATA slot
Power Supply	12V DC-in (typical: 5W)
Operating System	Android 4.4.2
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, 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



Back Panel External I/O



Ordering Information

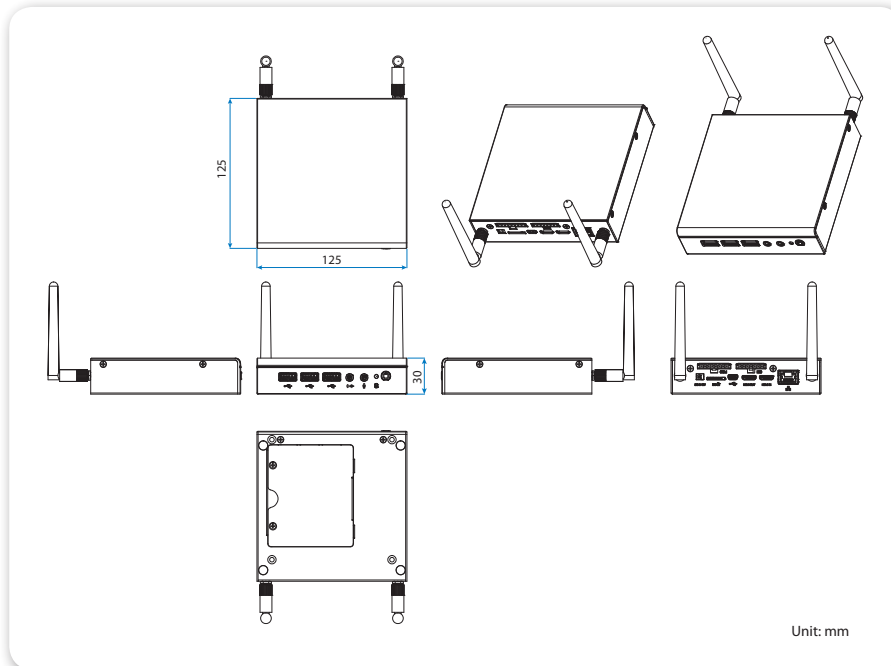
Part Number	SoC Frequency	Description
ATG-A900-1D10A1	VIA Elite E1000 Cortex-A9 dual-core SoC @ 1.0GHz	Android System with 1.0GHz VIA Elite E1000 Cortex-A9 SoC, 2GB DDR3 RAM, 4GB eMMC, Mini HDMI, 3 USB 2.0, Mini USB 2.0, COM, GPIO, Gigabit Ethernet, Micro SD card slot, miniPCIe slot, mSATA connector,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

Optional Accessories

Wireless Accessories

Part Number	Description
00GO27100BU2B0D0	VNT9271BU0DB IEEE 802.11b/g/n USB Wi-Fi dongle
EMIO-1541-00A1	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 and SIM card slot (*Note: GPS function is not currently supported for ARTiGO A900)

Dimensions



Unit: mm

Packing List

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