

VIA

ARTiGO A600

Fanless ultra-compact system with rich connectivity options for enterprise IoT and M2M applications



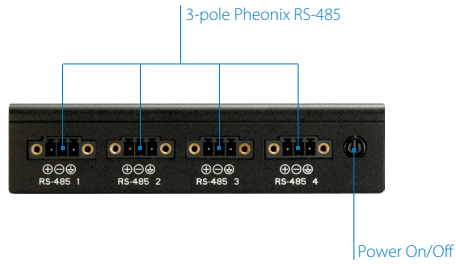
Features

- 800MHz VIA Cortex-A9 SoC
- Advanced 3D/2D graphics and video engine
- Rich I/O connectivity, 4 3-pole Phoenix RS-485 ports with full 3.75KV isolation
- Optional Wi-Fi support
- Linux BSP and customization services available

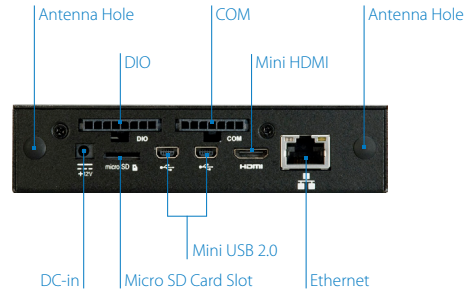
Specifications

Model Name	ARTiGO A600
Processor	800MHz VIA Cortex-A9 SoC
System Memory	1GB DDR3 SDRAM onboard
Storage	4GB eMMC Flash memory
Boot Loader	512KB SPI Flash ROM
Graphics	Mali-400 SP GPU 2 integrated, independent 3D/2D graphics processing units Graphics engine supporting OpenGL® ES 2.0 hardware acceleration Supports MPEG-2, VC1 and H.264 video decoding up to 1080p
LAN	VIA VT6113 10/100 base-TX PHY chip
Audio	VIA VT1603A I2S Audio Codec
HDMI	Integrated HDMI 1.4 transmitter
Expansion I/O	1 miniPCIe slot (USB only)
Front Panel I/O	4 3-pole Phoenix RS-485 ports 1 Power on/off button
Back Panel I/O	1 Mini HDMI port 2 Mini USB 2.0 ports 1 8-pin DIO connector supports 8-bit GPIO (4 GPI + 4 GPO) 1 7-pin COM connector (TX/RX and Debug) 1 10/100Mbps Ethernet port 1 Micro SD card slot 2 Antenna holes for 3G/Wi-Fi 1 DC-in jack
Power Supply	12~24V DC-in
Operating System	Linux Kernel 3.0.8
Operating Temperature	-5°C ~ 50°C
Operating Humidity	0% ~ 90% @ 45°C (non-condensing)
Mechanical Construction	Aluminum top cover Metal chassis housing
Mounting	VESA mount (100mm x 100mm) (optional)
Dimensions	125mm(W) x 125mm(D) x 30mm(H) (4.92" x 4.92" x 1.18")
Weight	0.48Kg (1.058lbs)
Compliance	CE/FCC

Front Panel External I/O



Back Panel External I/O



Ordering Information

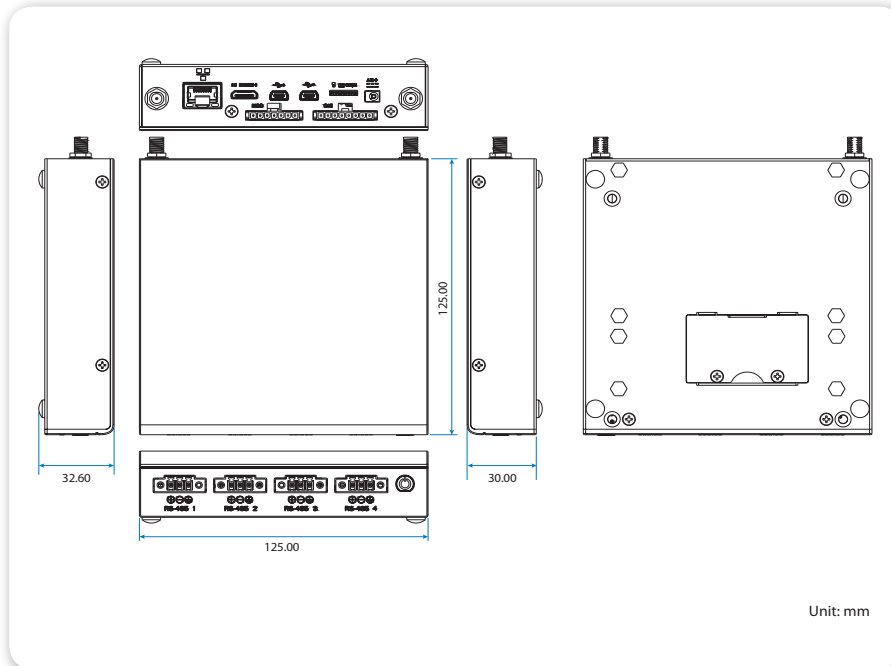
Part Number	SoC Frequency	Description
ATG-A600-1S08A1	VIA Cortex-A9 SoC @ 800MHz	Fanless embedded system with 800MHz VIA Cortex-A9 SoC, 1GB DDR3 RAM, 4GB eMMC, Mini HDMI, 2 Mini USB 2.0, 4 3-pole Phoenix RS-485, COM, DIO, 10/100Mbps Ethernet, Micro SD card slot, miniPCIe slot, 12~24V DC-in

Optional Accessories

Wireless Accessories

Part Number	Description
00GO27100BU2B0OD0	VNT9271BU0DB IEEE 802.11 b/g/n USB Wi-Fi dongle
EMIO-1533-00A2	VNT9271 IEEE 802.11 b/g/n USB Wi-Fi module with assembly kit and antenna
EMIO-2531-00A1	VAB-820-W-M IEEE 802.11 b/g/n miniPCIe Wi-Fi & Bluetooth module with assembly kit and antenna
EMIO-2550-01A1	3.75G HSPA/UMTS Mobile broadband full size miniPCIe module with GPS, assembly kit and antenna *Note: GPS function is not currently supported for ARTiGO A600)

Dimensions



Packing List

Items
ARTiGO A600 system
AC-to-DC adapter
Console cable
3-pole female terminal block