

VIA
ARTiGO A3000

Fanless ultra-compact Quad-Core ARM system for Edge AI applications

Features

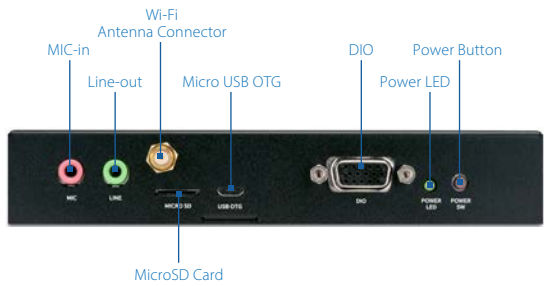
- High-performance MediaTek Genio 350 Quad-Core SoC
- Integrated AI processor for Edge AI applications supporting up to 0.3 TOPS
- Dual-band 802.11ac Wi-Fi
- Full HD hardware accelerated H.265/H.264 video encoding and decoding
- Optional 4G/5G support including onboard SIM card slot



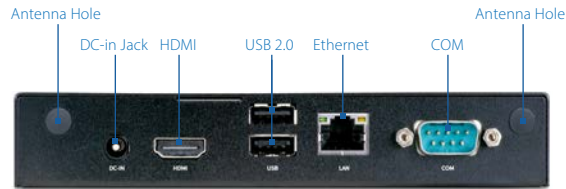
Specifications

Model Name	ARTiGO A3000
Processor	2.0GHz MediaTek Genio 350 Cortex-A53 Quad-Core SoC
System Memory	2GB LPDDR4 DRAM
Storage	16GB eMMC Flash Memory
Graphics	ARM Mali-G52 3EE MC1 GPU 3D graphic accelerator capable of processing 1600M pixel/sec @ 800MHz Graphics engine supporting OpenGL® ES 3.2, OpenCL ES 2.0, and Vulkan 1.1 hardware acceleration Supports H.265 and H.264 video encoding and decoding up to 1080p @ 60fps
AI Processor	Cadence® Tensilica® Vision P6 NPU (supports up to 0.3 TOPS)
Audio DSP	Cadence® Tensilica® HiFi 4
Wireless Connectivity	MediaTek MT6631 - Dual-band 802.11AC Wi-Fi
Audio	MediaTek MT6357/MT6390
HDMI	Lontium LT8618SXB Digital Parallel Interface to HDMI 1.4 transmitter
USB	Genesys GL852GT-MNG USB 2.0 MTT HUB
Ethernet	Realtek RTL8152BNI-VB-CG USB2.0 to 10/100M Ethernet controller
Expansion I/O	MiniPCIe slot SIM card slot
Front Panel I/O	Micro USB 2.0 OTG port DIO port (supports 10 GPIO with 3.3V power) MicroSD card slot 2 Audio jacks: Line-out and Mic-in WiFi antenna connector Power LED Power button
Back Panel I/O	HDMI port 2 USB 2.0 ports COM port for RS-232 (TX/RX) 10/100Mbps Ethernet port 2 Antenna holes for 4G/5G DC-in jack
Power Supply	12V DC-in (supports 9V~15V)
Operating System	Android 12 / Yocto 3.1
Operating Temperature	0°C ~ 60°C
Storage Temperature	-10°C ~ 60°C
Operating Humidity	0~90% (non-condensing)
Mechanical Construction	Metal Chassis
Mounting	Wall/VESA mountable
Dimensions	154.4mm(W) x 27mm(H) x 106.5mm(D) (6.08" x 1.06" x 4.19")
Weight	1.3kg (2.8lbs)
Compliance	CE, FCC, TELEC, UKCA

Front Panel I/O



Back Panel I/O



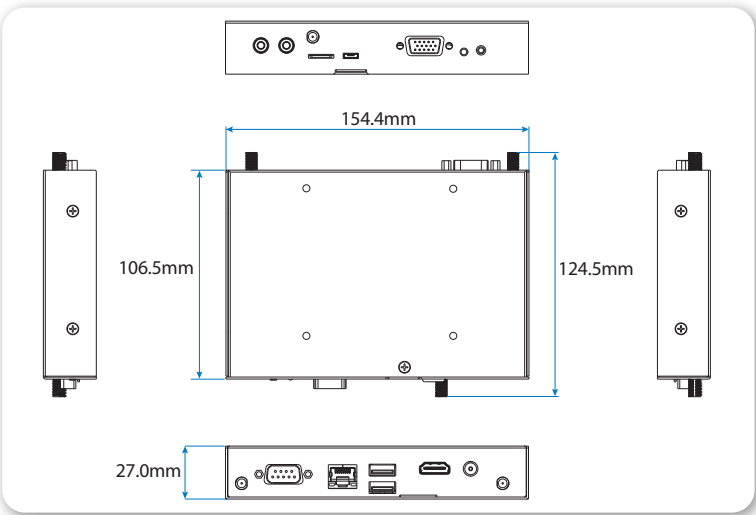
Ordering Information

Part Number	SoC Frequency	Description
ATG-A3000-1Q20A0	MediaTek Genio 350 Quad-Core SoC @ 2.0GHz	VIA ARTiGO A3000 system with 2.0GHz MediaTek Genio 350 Quad-Core SoC, 16GB eMMC, 2GB LPDDR4 SDRAM, HDMI, 2 USB 2.0, Micro USB OTG, DIO, COM, Ethernet, Wi-Fi 5, MicroSD card slot, MiniPCle slot, SIM card slot, 12V DC-in

Optional Accessories

Wireless Module Options	
Part Number	Description
EMIO-2575-00A0	Quectel EC25JFA 4G LTE mobile broadband miniPCle module with two antennas and assembly (Japan only)

Dimensions



Packing List

Items
ARTiGO A3000 system
AC-to-DC adapter
Power cord (Japan type)
Wi-Fi Antenna

