

AIoT Edge Device

VIA ARTiGO A950

Fanless ultra-compact quadcore ARM system for AIoT Edge applications

Features

- High-performance Octa-Core MediaTek Genio 500 SoC
- Integrated AI processor for AIoT applications
- Full HD hardware accelerated H.265/H.264 video decoding
- Dual-band 802.11ac Wi-Fi with Bluetooth 5.0
- Optional 4G/5G support including onboard SIM card slot



Specifications

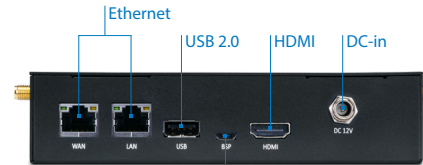
Model Name	ARTiGO A950
Processor	MediaTek Genio 500 Octa-Core SoC - Four Cortex-A73 @ 2.0GHz - Four Cortex-A53 @ 2.0GHz
System Memory	4GB LPDDR4 DRAM
Storage	16GB eMMC Flash Memory
Graphics	ARM Mali-G72 high-performance GPU 3D graphics accelerator capable of processing 2400M pixel/sec @ 800MHz Graphics engine supporting OpenGL® ES 3.0, OpenCL ES 1.1, and Vulkan 1.0 hardware acceleration Supports H.265 and H.264 video decoding up to 1080p@30fps Supports Cadence Tensilica Vision P6 x2 DSP
Wireless Connectivity	MediaTek MT7668 Dual-band 802.11AC Wi-Fi with MU-MIMO Bluetooth 5.0
Audio	MediaTek MT6358
HDMI	ITE IT66121FN Digital Parallel Interface to HDMI 1.3a Transmitter
USB	TI TS3USB221 High-Speed USB 2.0 Microchip LAN9514 USB 2.0 to USB hub and 10/100 Ethernet controller
Ethernet	ASIX AX88772 USB 2.0 to Fast Ethernet Controller
Expansion I/O	MiniPCIe slot SIM card slot
Front Panel I/O	Power button with LED Reset button
Back Panel I/O	HDMI connector USB 2.0 port Micro USB 2.0 port (for OS image upload only) 2 10/100Mbps Ethernet ports DC-in Jack
Left Panel I/O	1 Wi-Fi antenna connector 1 Antenna hole for 4G/5G
Right Panel I/O	3.5mm phone jack (supports Headphone-out and MIC-in) 1 Wi-Fi antenna connector 1 BT antenna connector
Power Supply	12V DC-in
Operating System	Android 10 / Yocto 3.1
Operating Temperature	0°C ~ 60°C
Storage Temperature	-10°C ~ 60°C
Operating Humidity	0~90% @ 45°C (Non-condensing)
Mechanical Construction	Metal chassis
Dimensions	147.25mm(W) x 34mm(H) x 103.5mm(D) (5.80" x 1.34" x 4.07")
Weight	1.2kg(2.6lbs)
Compliance	CE, FCC, TELEC, UKCA



Front Panel I/O



Back Panel I/O



Left Panel I/O



Right Panel I/O



Ordering Information

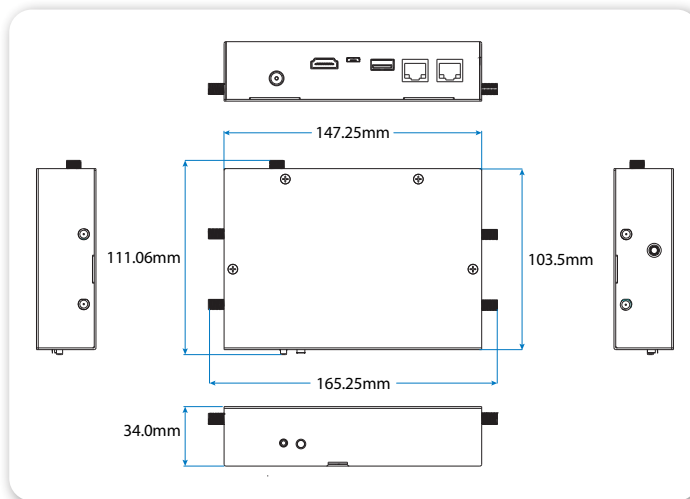
Part Number	SoC Frequency	Description
ATG-A950-1Q10A0	MediaTek Genio 500 Octa-Core SoC @ 2.0GHz	Fanless Edge AIoT system with 2.0GHz MediaTek Genio 500 Octa-Core SoC, 16GB eMMC, 4GB LPDDR4 SDRAM, HDMI, USB 2.0, Micro USB 2.0 OTG, 2 LAN, 3.5mm Phone Jack, Wi-Fi, Bluetooth 5.0, MiniPCIe slot, SIM card slot, 12V DC-in

Optional Accessories

Wireless Module Options

Part Number	Description
EMIO-2574-00A0	SIMCom SIM7600JC-H 4G LTE mobile broadband miniPCIe module with two antennas and assembly kit (Japan only)

Dimensions



Packing List

Items
ARTiGO A950 system
AC-to-DC adapter
Power cord(Japan type)
3 WiFi/BT Antennas