

Enterprise IoT Systems

VIA

ARTiGO A630

Fanless low-profile gateway system for enterprise IoT and M2M applications



Features

- Fanless and ultra slim low profile (only 2.7cm height)
- Powered by 1.0GHz VIA Cortex-A9 dual-core SoC
- Hardware acceleration for smooth 1080p video playback
- Flexible design for IoT wireless gateway
- Support for 3G, Wi-Fi, & BT wireless connectivity

Microsoft
Azure

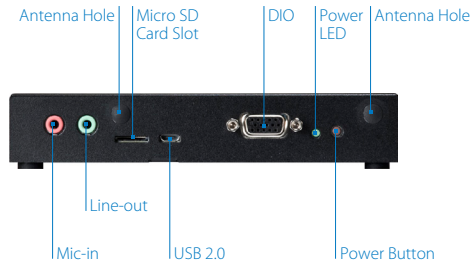
Certified

CE FCC

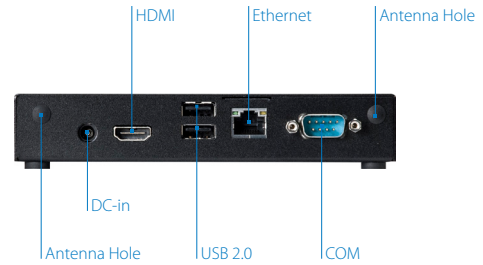
Specifications

Model Name	ARTiGO A630
Processor	1.0GHz VIA Cortex-A9 dual-core SoC
System Memory	1GB DDR3 SDRAM onboard
Storage	4GB eMMC Flash memory Micro SD Card
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 and H.264 video decoding up to 1080p
LAN	ASIC AX88772CLF
HDMI	Integrated HDMI 1.4 transmitter
USB	ASIC USB2514B-AEZC USB 2.0 hi-speed 4-port hub controller
Expansion I/O	1 miniPCIe slot 1 USB Connector
Front Panel I/O	1 Micro USB 2.0 OTG port 1 DIO port supports 8 GPIO (4 GPI + 4 GPO) 1 Micro SD card slot 2 Audio jacks: Line-out, Mic-in 2 Antenna holes for 3G/Wi-Fi 1 Power LED 1 Power button
Back Panel I/O	1 HDMI port 2 USB 2.0 ports 1 COM port for RS-232 (TX/RX) 1 10/100Mbps Ethernet port 2 Antenna holes for 3G/Wi-Fi 1 DC-in jack
Bottom Panel I/O	1 miniPCIe slot 1 Micro SD/SPI boot switch
Power Supply	12V DC-in (Typical: 36W)
Operating System	Android 5.0, Linux Kernel 3.4.5
VIA Smart ETK	GPIO, UART, Watchdog timer
Operating Temperature	0°C to 50°C
Operating Humidity	0% ~ 90% @ 45°C (non-condensing)
Storage Temperature	-10°C ~60°C @ 90% (non-condensing)
Vibration Loading During Operation	With onboard eMMC 5Grms, IEC 60068-2-64, random, 5 ~ 500Hz, 1hr/axis
Shock During Operation	With onboard eMMC 50G, IEC 60068-2-27, half sine, 11ms duration
Mechanical Construction	Metal top cover Metal chassis housing
Mounting	VESA Mount (75mm x 75mm) (Optional)
Dimensions	154.4mm(W) x 27mm(H) x 106.68mm(D) (6.08" x 1.06" x 4.2")
Weight	.50kg (1.10lbs)
Compliance	CE, FCC

Front Panel External I/O



Back Panel External I/O



Ordering Information

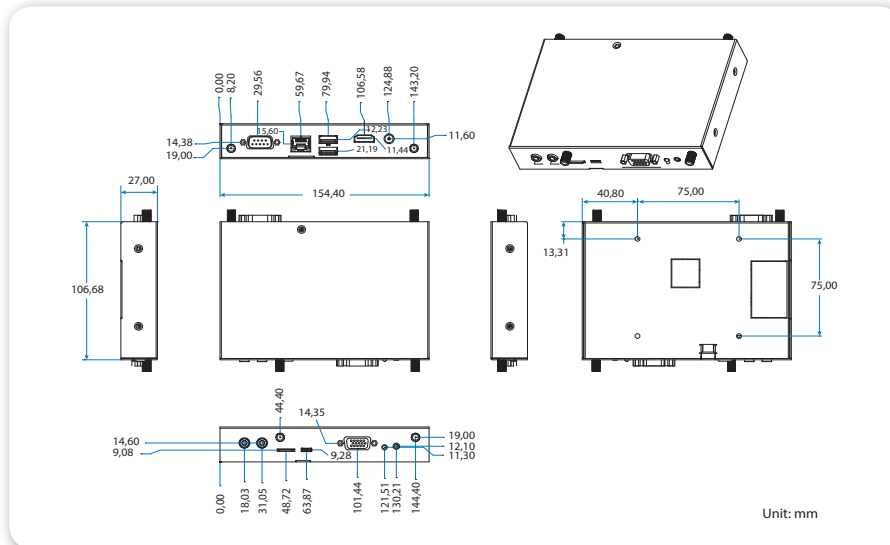
Part Number	SoC Frequency	Description
ATG-A630-1D10A1	VIA Cortex-A9 dual-core SoC @ 1.0GHz	Fanless embedded system with 1.0GHz VIA Cortex-A9 Soc, 1GB DDR3 RAM, 4GB eMMC, HDMI, 2 USB 2.0, Micro USB 2.0, COM, DIO, 10/100Mbps Ethernet, miniPCIe slot, Micro SD card slot, 12V DC-in

Optional Accessories

Wireless Accessories

Part Number	Description
EMIO-5531-00A1	VAB-820-W IEEE 802.11 b/g/n USB Wi-Fi + Bluetooth 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 assembly kit and antenna

Dimensions



Packing List

Items
ARTiGO A630 system
AC-to-DC adapter
Power cord (USA type)
Screw pack for miniPCIe card
Rubber feet pack