

VIA

ARTiGO A830

Low power dual-core platform with multiple isolated serial ports for smart locker applications



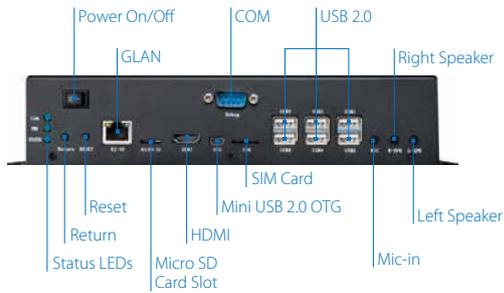
Features

- ④ High-performance 1.0GHz NXP i.MX 6Dual Lite Cortex-A9 SoC
- ④ 5 RS-232 ports and 1 RS-485 port
- ④ Wide operating temperature range -20°C ~ 60°C
- ④ Surge and ESD protection
- ④ 5W audio amplifier

Specifications

Model Name	ARTiGO A830
Processor	1.0GHz NXP i.MX 6Dual Lite Cortex-A9 SoC
System Memory	1GB DDR3 SDRAM onboard
Storage	8GB eMMC Flash memory
Boot Loader	4MB SPI flash ROM
Graphics	Vivante GC880 2 Independent, integrated 3D/2D graphics processing units Graphics engines support OpenGL®ES 2.0, OpenVG 1.1 hardware acceleration Support MPEG-2, VC1 video decoding up to 1080p
LAN	Micrel KSZ9031RNX Gigabit Ethernet Transceiver with RGMII support
Audio	I2S Audio Interface
HDMI	Integrated HDMI 1.4 transmitter
USB	SMSC USB2514 USB 2.0 High Speed 4-port hub controller
Front Panel I/O	1 HDMI port 6 USB 2.0 ports 1 Mini USB 2.0 OTG port 1 COM port (TX/RX for debugging) 1 Gigabit Ethernet port 1 Micro SD card slot 1 SIM card slot 2 Speaker-out connectors with 5W amp 1 Mic-in 3 LEDs for LAN, power, and storage status 1 Reset button 1 Return button 1 Power on/off switch
Back Panel I/O	1 LVDS connector 3 COM ports supporting DTS/RTS/TX/RX 2 COM ports supporting 8-wire DTE mode 1 3-pole Phoenix RS-485 port 1 Backlight connector 1 DC-in connector
Power Supply	12V DC-in
Operating System	Android 4.4.2
Operating Temperature	-20°C ~ 60°C
Operating Humidity	0% ~ 95% @ 45°C (non-condensing)
Mechanical Construction	Metal chassis housing
Mounting	Built-in wall mountable brackets on system chassis
Dimensions	260.2mm(W) x 50mm(H) x 140mm(D) (10.2" x 1.96" x 5.51")
Weight	0.7kg (1.54lbs)

Front Panel External I/O



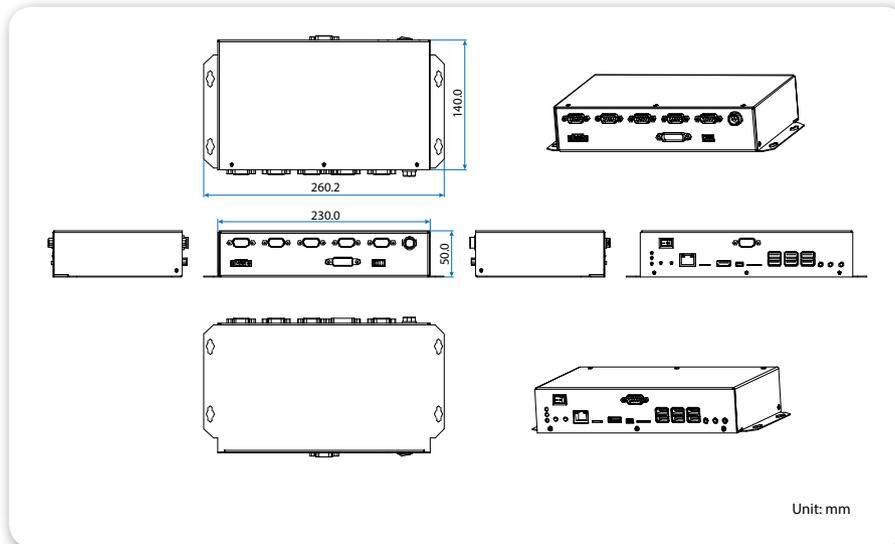
Back Panel External I/O



Ordering Information

Part Number	SoC Frequency	Description
0ATG-A830-1D10A1	NXP i.MX 6DualLite Cortex-A9 dual-core SoC @ 1.0GHz	Android System with 1.0GHz i.MX 6DualLite Cortex-A9 SoC, 1GB DDR3 RAM, 8GB eMMC, HDMI, LVDS, 6 USB 2.0, Mini USB 2.0 OTG, 6 COM, 3-pole Phoenix RS-485 port, Gigabit Ethernet, Micro SD card slot, SIM card slot, Left and right speaker, Mic-in, Backlight connector, Reset button, Return button, 12V DC-in

Dimensions



Packing List

Items

- VIA ARTIGO A830 system
- 1 3-pole Phoenix to RS-485 connector