

VIA

ARTiGO A830

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



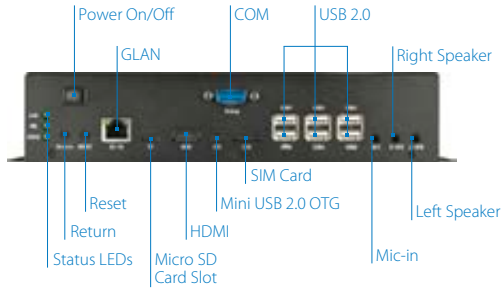
Features

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

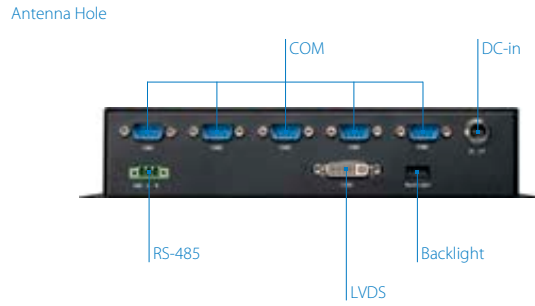
Specifications

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, VC-1 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	6 USB 2.0 ports 1 Mini USB 2.0 OTG port 1 HDMI 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)
Dimensions	260.2mm(W) x 50mm(H) x 140mm(D) (10.2" x 1.96" x 5.51")
Weight	0.7kg (1.54lbs)
Mechanical Construction	Metal chassis housing

Front Panel External I/O



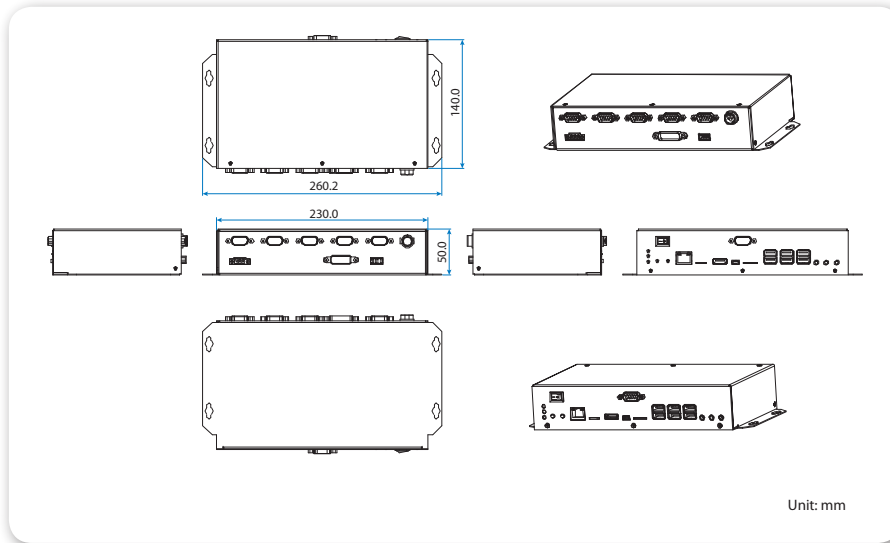
Back Panel External I/O



Ordering Information

Part Number	SoC Frequency	Description
ATG-A830-1S10A1	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