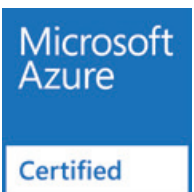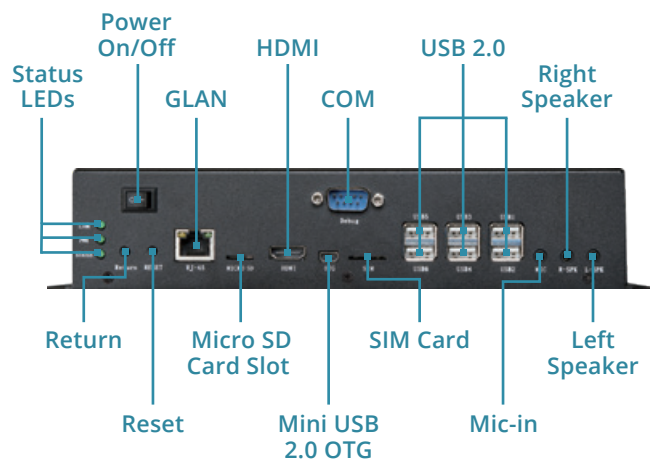# VIA ARTiGO A830

Ruggedized Edge Computing System

Ensure reliable 24/7 operation for your most demanding outdoor IoT and edge intelligence installations with the ruggedized small form factor VIA ARTiGO A830. Powered by the 1.0GHz NXP i.MX 6DualLite Cortex-A9 SoC, this reliable and versatile Android system offers a rich array of I/O and connectivity features, including five RS-232 ports and one RS-485 port to enable easy integration a full range of modern and legacy peripherals and equipment. With its support for a wide operating temperature range and surge and lightning protection, the VIA ARTiGO A830 provides the ultimate solution for a host of smart locker, smart vending machine, smart information kiosk, and signage installations.
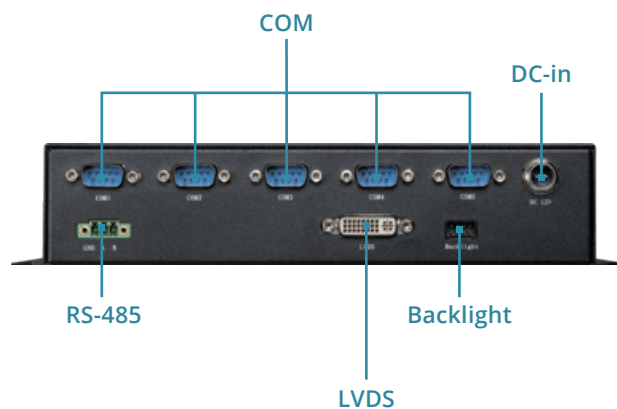
◆ 1.0GHz NXP i.MX 6DualLite Cortex-A9 SoC

◆ Rich I/O feature set including 5 RS-232 ports and 1 RS-485 port

◆ Wide operating temperature range -20°C ~ 60°C

◆ Surge and ESD protection

◆ 5W audio amplifier

◆ Android BSP features Android 4.4.2

Microsoft Azure
Certified

VIA ARTiGO A830

VIA ARTiGO A830 Front Panel

Status LEDs
Power On/Off
GLAN
HDMI
COM
USB 2.0
Right Speaker

Return
Reset
Micro SD Card Slot
Mini USB 2.0 OTG
SIM Card
Mic-in
Left Speaker

VIA ARTiGO A830 Rear Panel

COM
DC-in
RS-485
LVDS
Backlight

VIA ARTiGO A830 Specifications

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	I^2S Audio Interface
LAN	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)

VIA we connect