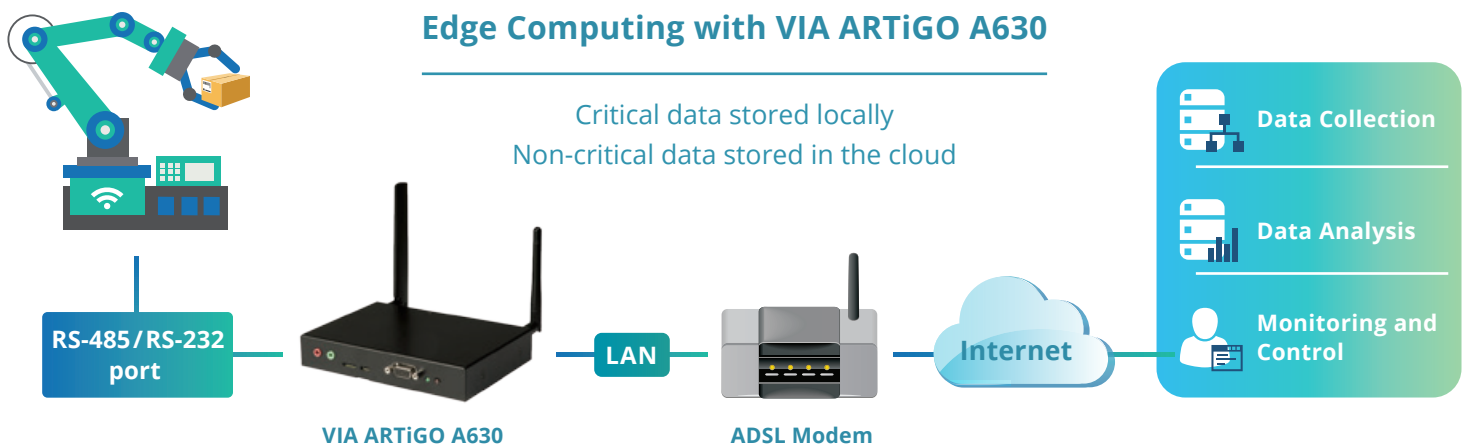# VIA ARTiGO A630

Automation Telemetry System

Optimize the remote management and monitoring of CNC machinery with the VIA ARTiGO A630 Automation Telemetry System. This ultra-slim fanless enterprise IoT gateway features a rich I/O feature set, including an RS-232 port and a DIO port supporting 8 GPIO interfaces, providing a wealth of connectivity options to industrial equipment. In addition to a built-in Ethernet port, the system also supports a choice of optional 3G or Wi-Fi modules to ensure reliable communications between the equipment and the cloud center and enable remote online monitoring, data acquisition and analysis, and maintenance applications that boost plant efficiency and save operational costs.

- ◆ Robust low-profile chassis with fanless operation
- ◆ 1.0 GHz VIA ARM Cortex-A9 dual-core SoC
- ◆ RS-232/COM port and DIO port for 8-bit GPIO
- ◆ Support for 3G, Wi-Fi, & BT wireless connectivity
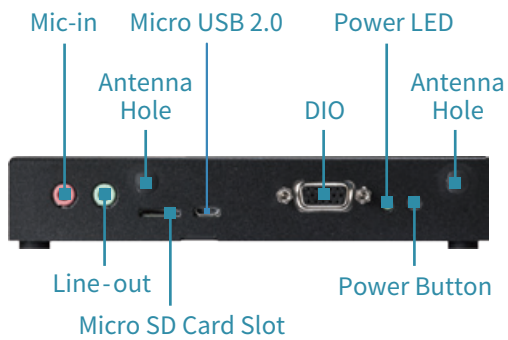- ◆ Android 5.0 or Linux BSP

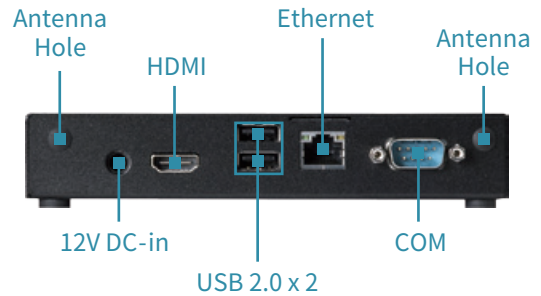## Edge Computing with VIA ARTiGO A630

Critical data stored locally
Non-critical data stored in the cloud

RS-485 / RS-232 port

VIA ARTiGO A630

LAN

ADSL Modem

Internet

Data Collection

Data Analysis

Monitoring and Control

VIA ARTiGO A630 Front Panel

Mic-in   Micro USB 2.0   Power LED

Antenna Hole   DIO   Antenna Hole

Line-out   Power Button

Micro SD Card Slot

VIA ARTiGO A630 Rear Panel

Antenna Hole   Ethernet   Antenna Hole

HDMI

12V DC-in   COM

USB 2.0 x 2

VIA ARTiGO A630 Specifications

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 Loading	With onboard eMMC 50G, IEC 60068-2-27, half sine, 11ms duration	
Mechanical Construction	Metal top cover	Metal chassis housing
Mounitng	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	