



VIA ARTiGO A600

Smart Building Automation System



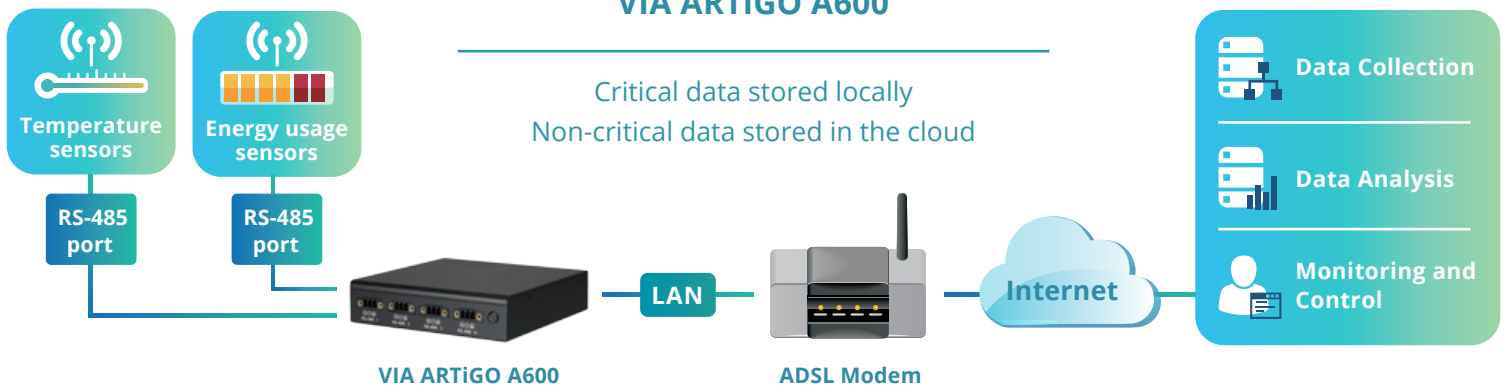
Reduce energy consumption and enhance comfort and safety with the VIA ARTiGO A600 Smart Building Automation System. With a raft of I/O features, including four 3-pole Phoenix RS-485 ports with full 3.75KV isolation, this ultra-compact fanless system provides seamless connections to a wide variety of heating, ventilation, air conditioning, and lighting equipment. Its built-in Ethernet port and optional Wi-Fi module ensure reliable communications between the equipment and the cloud and enable remote online monitoring and management applications that minimize operation and maintenance costs. With its versatile, high-performance design, the VIA ARTiGO A600 brings the benefits of Edge Computing to any smart building. By ensuring that critical data is processed and stored locally while non-critical data is transmitted to the cloud for analysis, the system will minimize latency when handling events and reduce the data traffic to the cloud.

- ◆ Ultra-compact fanless smart automation control system
- ◆ Four 3-pole Phoenix RS-485 ports with full 3.75KV isolation
- ◆ COM connector for RS-232 port
- ◆ DIO connector for 8-bit GPIO
- ◆ Linux BSP

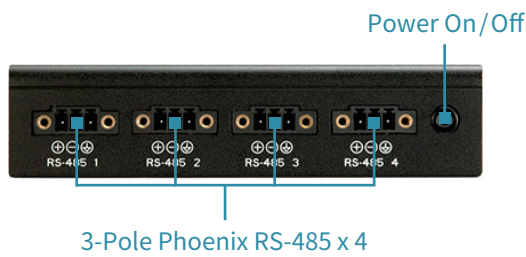


Smart Building Edge Computing with VIA ARTiGO A600

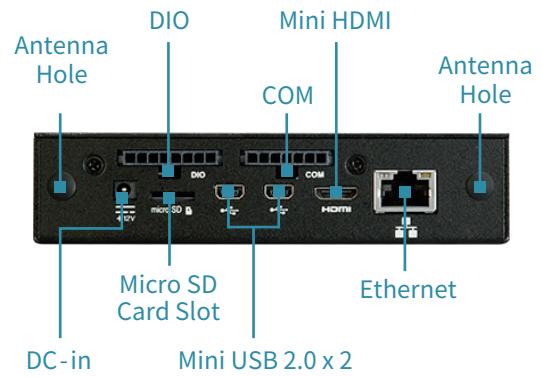
Critical data stored locally
Non-critical data stored in the cloud



VIA ARTiGO A600 Front Panel



VIA ARTiGO A600 Rear Panel



VIA ARTiGO A600 Specifications

Processor	800MHz VIA Cortex-A9 SoC
System Memory	1 GB DDR3 SDRAM onboard
Storage	4GB eMMC Flash memory
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, VC-1 and H.264 video decoding up to 1080p
LAN	VIA VT6113 10/100 base-TX PHY chip
Audio	VIA VT1603A I2S Audio Codec
HDMI	Integrated HDMI 1.4 transmitter
Expansion I/O	1 miniPCIe slot (USB only)
Front Panel I/O	4 3-pole Phoenix RS-485 ports 1 Power on/off button
Back Panel I/O	2 Mini USB 2.0 ports 1 Mini HDMI port 8-pin DIO connector supports 8-bit GPIO (4 GPI + 4 GPO) 7-pin COM connector (TX/RX and Debug) 1 10/100Mbps Ethernet port 1 Micro SD card slot 2 Antenna holes for Wi-Fi 1 DC-in jack
Power Supply	12 ~ 24V DC-in
Operating System	Linux Kernel 3.0.8
Operating Temperature	0°C ~ 50°C (with industrial storage)
Operating Humidity	0% ~ 90% @ 45°C (non-condensing)
Dimensions	125mm(W) x 125mm(D) x 30mm(H) (4.92" x 4.92" x 1.18")
Weight	0.48 Kg (1.058lbs)
Mounting	VESA mount (100mm x 100mm) (optional)
Mechanical Construction	Aluminum top cover Metal chassis housing
Compliance	CE/FCC