



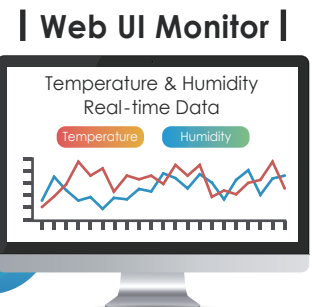
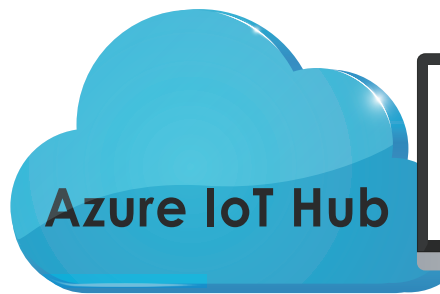
# VIA Smart Building Management System



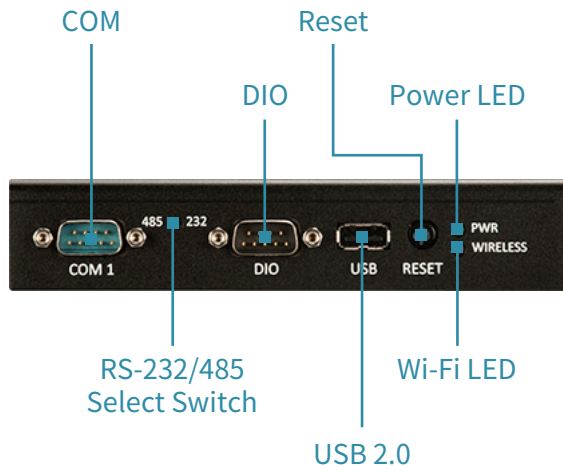
Maximize energy efficiency, minimize operating costs, and prevent HVAC equipment downtime with the VIA Smart Building Management System. Combining the compact VIA ARTiGO A820 with FogHorn Lightning edge intelligence software and the Microsoft Azure cloud connectivity, this high-performance Edge AI system makes it easy to add intelligent, real-time environmental monitoring and predictive operational intelligence capabilities that reduce energy consumption while making your building a more comfortable place to live or work in. With its real-time edge data processing and analytics capabilities, the system can issue automatic alerts when it detects anomalies in room temperature and switch off climate control systems when they are not needed. Over the longer term it can even use the data to build a bigger picture that provides deeper insights into your building's usage patterns that open up new opportunities for additional efficiencies and savings.

The system can be used to control many aspects of smart buildings, including:

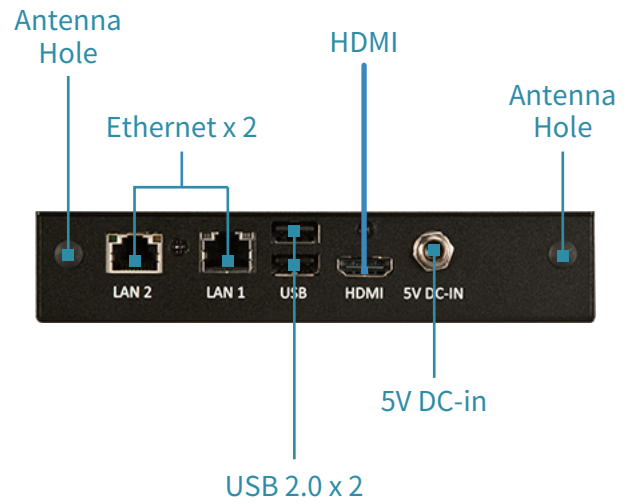
- ◆ Environment monitoring and control
- ◆ Predictive maintenance
- ◆ Energy consumption optimization
- ◆ Occupant comfort improvement



## VIA ARTiGO A820 Front Panel



## VIA ARTiGO A820 Rear Panel



## VIA Smart Building Management System Specifications

|                                 |  |
|---------------------------------|--|
| <b>Software and OS</b>          | Linux Yocto 2.4<br>Microsoft Azure Certified<br>FogHorn Lightning Edge Intelligence                              |
| <b>Processor &amp; Graphics</b> | 1.0GHz NXP i.MX 6DualLite ARM Cortex-A9 SoC with Vivante GC2000+ GPU   |
| <b>System Memory</b>            | 1GB DDR3 SDRAM onboard   |
| <b>Storage</b>                  | 4GB eMMC Flash memory<br>Micro SD card slot  |
| <b>Connectivity</b>             | Dual Ethernet ports (10/100Mbps and Gigabit Ethernet)<br>Optional 802.11b/g/n Wi-Fi module<br>Optional 3G module |
| <b>I/O Ports</b>                | Three USB 2.0, one HDMI, one COM, and one DIO  |
| <b>Operating Temperature</b>    | -10°C ~ 60°C   |
| <b>Operating Humidity</b>       | 0% ~ 90% (non-condensing)  |
| <b>Form Factor</b>              | 150mm (W) x 30mm (H) x 125.5mm (D) (5.91" x 1.18" x 4.94")   |

