VIO-300 Series

INDUSTRIAL PANEL PCS AND TOUCH MONITORS

POWER-EFFICIENT, MODULAR, AND RUGGED SOLUTIONS FOR INDUSTRIAL HMI APPLICATIONS!



VIO-300-PC100-ASL | Rugged IP65 Industrial Touch Panel PC

Powered by Intel® Atom® x7000RE processors, Premio's VIO-300-PC100-ASL combines power-efficient computing, modular flexibility, and rugged reliability for industrial HMI applications.

- Easy Installation & Maintenance
- Power-Efficient Computing
- Flexible Upgrades & Expansion
- Long-Term Reliability

Product Brief
Industrial Panel PCs and Touch Monitors
VIO-300-PC100-ASL



VIO-300 Series Rugged IP65 Industrial Touch Panel PCs & Monitors

Premio's VIO-300 Series delivers rugged, modular industrial touchscreen solutions for reliable HMI applications.

The VIO-300 Series is designed for industrial automation, machine control, and HMI applications that require reliable performance and flexible integration. Its modular architecture allows users to pair industrial touchscreen displays with interchangeable computing modules, simplifying system upgrades, maintenance, and customization to meet evolving application requirements.

The VIO-300 Series offers industrial touchscreen displays ranging from 12.1" to 23.8", with multiple aspect ratios, including 4:3, 5:4, and 16:9. Featuring front IP65 protection, high-brightness options exceeding 1,000 nits, PCAP and resistive touch technologies, and wide viewing angles of up to 178°, the series delivers reliable visibility and interaction in demanding industrial environments.

Key Features

- Easy Installation & Maintenance
- Modular Design & Flexibility
- Long-Term Reliability
- Easy Customization
- Flexible Upgrades
- Versatile Display Options



Smart Agriculture

Railway Signal & Control

Factory Automation

Food & Beverage

Airport Control Towers

Kiosk & Retail



PC100-ASL Module

The VIO-300 Series features the PC100-ASL computing module, powered by Intel® Atom® x7000RE processors. With DDR5 memory support, the PC100-ASL delivers reliable, power-efficient computing for industrial HMI, factory automation, and machine control applications. Its modular design enables flexible configurations, simplified maintenance, and seamless integration with VIO-300 industrial touchscreen displays.



The PC100-ASL module is designed to support industrial applications with the following advantages:

- Power-Efficient Processing: Intel® Atom® x7000RE processors deliver reliable computing performance with optimized power consumption.
- Advanced Memory Support: DDR5 memory enables responsive multitasking and efficient data processing.
- Flexible Storage: M.2 B-Key storage options and a hot-swappable 2.5" SATA SSD provide flexible storage configurations and simplified maintenance.
- Industrial Connectivity: Comprehensive built-in I/O supports seamless integration with industrial equipment and peripherals.
- Flexible Expansion: Multiple M.2 slots and a universal I/O bracket accommodate diverse wireless and industrial connectivity requirements.



Universal I/O bracket



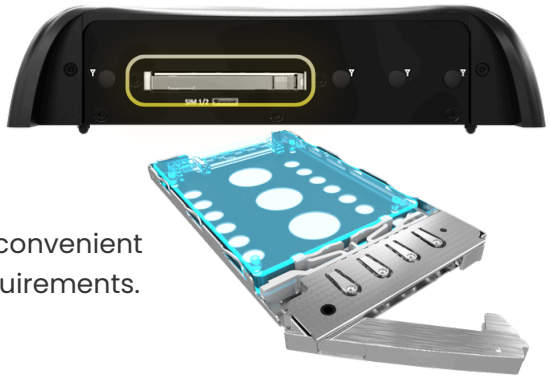


M.2 Expansion for Storage and Wireless Connectivity

The PC100-ASL features two M.2 B-Key slots for cellular connectivity and SATA storage options, along with one M.2 E-Key slot for Wi-Fi and Bluetooth. These expansion interfaces enable flexible storage and wireless configurations to support diverse industrial networking and application requirements.



Flexible Storage Options



The PC100-ASL features onboard M.2 B-Key expansion for SATA storage and a hot-swappable 2.5" SATA HDD/SSD bay for easy storage replacement without removing the panel PC from its installation. These flexible storage options simplify maintenance, enable convenient data transfers, and support diverse industrial application requirements.



Triple Display Support

The PC100-ASL features multiple display interfaces to support an integrated VIO-300 touchscreen and additional external monitors. This multi-display capability enables operators to monitor industrial processes, visualize real-time data, and manage multiple applications across screens, improving productivity and operational efficiency.





Hardware-Based Security with TPM 2.0

The PC100-ASL supports TPM 2.0 for hardware-based security, helping protect sensitive data and strengthen system integrity. TPM technology supports secure key storage and platform authentication, reducing the risk of unauthorized access and firmware tampering in industrial computing environments.



We Design, Manufacture, and Service Customers Around the World

CALIFORNIA (HQ)

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VIO-300-PC100-ASL Series

Touchscreen Computer with Intel® Atom® x7000RE Series Processors





Model	VIO-300-PC100-ASL	VIO-300-PC100-ASL-1E
Processor	Intel® Atom® x7433RE Processor Quad-Core (6MB Cache, up to 3.40 GHz) Intel® Atom® x7835RE Processor Octa-Core (6MB Cache, up to 3.60 GHz)	
Memory	1x DDR5 4800 MT/s SO-DIMM, Max. up to 16GB	
Graphic Output	1x DisplayPort 1.2, 1x HDMI 2.0b, 1x Dual-Channel 24-bit LVDS	
LAN	1x DisplayPort 1.2, 1x HDMI 2.0b, 1x Dual-Channel 24-bit LVDS	
I/O	2x USB 3.2 Gen 2 (10Gbps), 1x USB 3.2 Gen 1 Type-A (5Gbps), 1x USB 3.2 Gen 1 Type-C (5Gbps); 6x RS-232/422/485 (2x internal); 8x isolated DI / 8x isolated DO; 2x CAN FD (internal); 1x Mic-in, 1x Line-out	
Storage	1x Hot-Swappable 2.5" SATA SSD Bay; 1x Dual Nano SIM Socket	
M.2	2x M.2 B-Key (PCIe Gen 3 x1, 2242/3042/3052; one supports USB 3.0/SATA); 1x M.2 E-Key (PCIe Gen 3 x1, USB 2.0, 2230)	
PCIe	-	1x PCIe slot Gen3 x1
Power	9–36 VDC, AT/ATX Select, 3-pin Terminal Block	
Operating Temperature	-20°C to 60°C	
LCD Size	4:3 – 12.1" / 15" / 17"; 5:4 – 19" 16:9 – 15.6" / 21.5" / 23.8"	
Touch Type	Resistive 5-Wire Touch / Projected Capacitive Touch	
Universal Expansion Slot	-	1x Universal I/O Bracket
Certifications	CE, FCC Class B, ICES-003, UKCA	
Other	4x Wi-Fi Antenna Holes; TPM 2.0	

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