VIO-300 Series

INDUSTRIAL PANEL PCS AND TOUCH MONITORS

HIGH-PERFORMANCE, MODULAR, AND RUGGED SOLUTIONS FOR INDUSTRIAL HMI APPLICATIONS!



VIO-300-PC600-MTL | Rugged IP65 Industrial Touch Panel PC

Powered by Intel® Core™ Ultra processors, Premio's VIO-300-PC600-MTL combines high-performance computing, modular flexibility, and rugged industrial displays for demanding HMI applications.

- Easy Installation & Maintenance
- High-Performance Computing
- Flexible Upgrades & Expansion
- Long-Term Reliability

Product Brief
Industrial Panel PCs and Touch Monitors
VIO-300-PC600-MTL



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



PC600-MTL Module

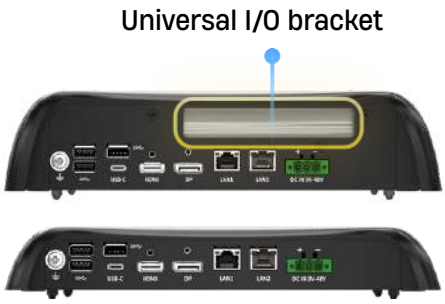
The VIO-300 Series now features the PC600-MTL computing module, powered by Intel® Core™ Ultra 5/7 processors. With DDR5 memory support, the PC600-MTL delivers high-performance computing for industrial HMI, factory automation, and machine control applications. Its modular design enables flexible configurations, simplified maintenance, and seamless integration with VIO-300 industrial touchscreen displays.



The PC600-MTL module is designed to support demanding industrial applications with the following advantages:

- High-Performance Processing: Intel® Core™ Ultra 5/7 processors deliver responsive computing for demanding industrial workloads.
- Advanced Memory Support: DDR5 5600 MT/s memory, up to 48GB, supports efficient multitasking and data processing.
- Flexible Storage: M.2 NVMe SSD and hot-swappable 2.5" SATA HDD/SSD options provide high-speed storage and easy 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 storage, wireless, and connectivity requirements.







M.2 Expansion for Storage and Wireless Connectivity

The PC600-MTL offers versatile M.2 expansion to support high-speed storage and industrial wireless communication. Featuring one M-Key slot for NVMe SSD storage, two B-Key slots for additional connectivity options, and one E-Key slot for Wi-Fi and Bluetooth, the module provides flexible configurations to meet diverse industrial application requirements.



Hot-Swappable SATA Storage



The PC600-MTL features an onboard M.2 M-Key slot for high-speed NVMe SSD 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 PC600-MTL features DisplayPort, HDMI, and LVDS interfaces to support an integrated VIO-300 touchscreen and additional external displays. 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 PC600-MTL 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.



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VIO-300-PC600-MTL Series

Touchscreen Computer with Intel® Core™ Ultra 5/7 Processors





Model	VIO-300-PC600-MTL	VIO-300-PC600-MTL-1E
Processor	Intel® Core™ Ultra 5 125U (12MB Cache, up to 4.30 GHz) Intel® Core™ Ultra 7 155U (12MB Cache, up to 4.80 GHz)	
Memory	1x DDR5 5600 MT/s SO-DIMM, Max. up to 48GB	
Graphic Output	1x DisplayPort 1.2, 1x HDMI 2.0b, 1x Dual-Channel 24-bit LVDS	
LAN	2x RJ45 (Intel® i226-IT, 2.5GbE)	
I/O	1x USB 3.2 Gen 2 Type-C, 1x USB 3.2 Gen 2 (10Gbps), 1x USB 3.2 Gen 1 (5Gbps), 1x USB 2.0; 4x RS-232/422/485 (2x internal); 8x isolated DI / 8x isolated DO; 2x CAN 2.0 A/B (internal); 1x Mic-in, 1x Line-out	
Storage	1x Hot-Swappable 2.5" SATA HDD/SSD Bay; 1x M.2 M-Key 2280 NVMe; 1x Dual Nano SIM Socket	
M.2	2x M.2 B-Key (PCIe x2, USB 3.0, 2242/3042/3052); 1x M.2 E-Key (PCIe x1, USB 2.0, 2230)	
PCIe	-	1x PCIe x4 (Gen 3, 4 lanes)
Power	9–48 VDC, AT/ATX Select, 3-pin Terminal Block	
Operating Temperature	0°C to 50°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 A	
Other	4x Wi-Fi Antenna Holes	

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