



SIO-300 Series

IP66/IP69K Stainless Steel Industrial Panel PCs

**INTELLIGENT HMI COMPUTING FOR
HYGIENIC INDUSTRIAL ENVIRONMENTS**



WASHDOWN STAINLESS STEEL PANEL PCs

Premio delivers stainless steel industrial panel PCs engineered for hygienic environments, combining power-efficient and high-performance computing options with durable, sealed construction for reliable industrial HMI applications.



**Industrial
Longevity**



**Hygienic, Sealed
Design**



**Scalable Computing
Performance**



**Flexible Industrial
Integration**



Stainless Steel Industrial Panel PCs for Hygienic Environments

The Premio SIO-300 Series combines efficient industrial computing with rugged, stainless steel construction for demanding HMI and edge control applications. Designed for hygienic environments, the series offers reliable processing, fanless operation, and sealed construction to support continuous industrial workloads.

Key Features

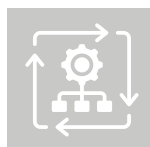
- Intel Atom® x7000 Series / Intel® Processor N97 (ASL)
- Intel® Core™ Ultra 5 125U with integrated AI acceleration (MTL)
- Fanless SUS316 stainless steel construction
- Washdown-rated enclosure design
- DDR5 memory support, up to 48GB on MTL
- Dual 2.5GbE LAN with industrial M12 connectors (ASL)
- M.2 expansion for storage and wireless connectivity
- Optical bonding and scratch-resistant touch glass (ASL)
- Direct 110–240V AC power input (ASL)



Agricultural Process
Visualization



Mining Equipment
Supervision



Livestock Facility
Automation



Food & Beverage
Production Lines



Pharmaceutical
Manufacturing
Operations



Cleanroom
Environmental
Oversight

Scalable Intel® Processing Performance

The SIO-300 Series offers two computing platforms designed to address different industrial HMI performance requirements, from power-efficient process monitoring to advanced visualization and intelligent edge applications.

Intel Atom® x7000 Series / Intel® Processor N97 (ASL)

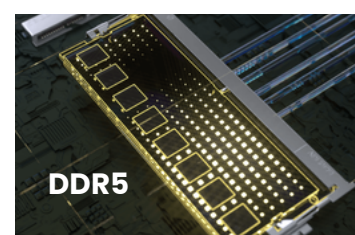
The Intel Atom® x7000 Series delivers efficient multi-threaded processing for industrial HMI, visualization, and control applications. Designed for continuous industrial operation, it balances computing capability and power efficiency, making it ideal for fanless stainless steel systems in hygienic environments.

Key Features

- Intel Atom® x7835RE or Intel® Processor N97
- Power-efficient computing for continuous industrial workloads
- DDR5-4800 memory support up to 16GB
- Long-life industrial platform option with Intel Atom® x7835RE



Intel Atom® x7000 Series



Intel® Core™ Ultra 5 125U Processor

Intel® Core™ Ultra Series 1 (MTL)

Powered by the Intel® Core™ Ultra 5 125U processor, the SIO-300-MTL delivers higher computing performance and integrated AI acceleration for demanding industrial HMI applications. Its hybrid processor architecture supports advanced visualization, multitasking, and intelligent industrial workloads while maintaining energy-efficient operation.

Key Features

- Intel® Core™ Ultra 5 125U Processor
- Integrated AI acceleration with Intel® AI Boost NPU
- DDR5-5600 memory support up to 48GB
- Available in 21.5" and 23.8" widescreen configurations

Flexible M.2 Storage Expansion

The SIO-300 Series supports compact M.2 SSD storage for industrial applications, data logging, and operating system deployment.

SIO-300-ASL

- M.2 B-Key supporting NVMe/SATA SSD storage
- Optional 2.5" SATA SSD on 21.5" and 23.8" models

SIO-300-MTL

- 1x M.2 M-Key 2280 supporting PCIe Gen4 x4 NVMe or SATA SSD
- Automatic storage interface detection
- No 2.5" SATA drive configuration

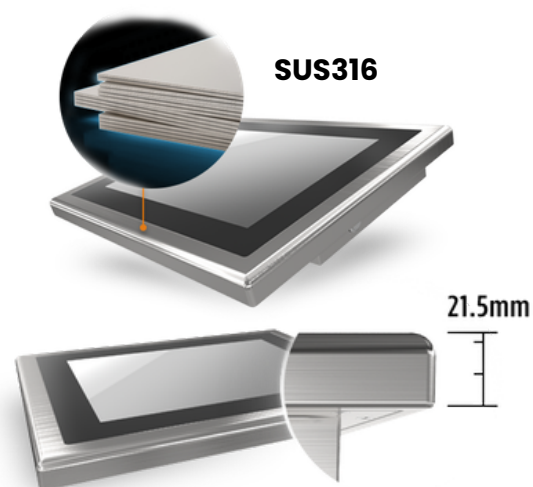




Stainless Steel Construction for Industrial Durability

The stainless steel enclosure provides structural durability and corrosion resistance suited for harsh industrial and hygienic environments. Constructed from SUS316 (Type 316) stainless steel, it delivers long-term reliability and durability for the SIO Series.

- **Corrosion Resistance:** Staving off the destructive effects of many corrosive substances.
- **Lightweight Strength:** Ideal strength-to-weight balance, forgoing unnecessary material heft.
- **Wide Temperature Threshold:** Extreme heat and cold do not diminish the stainless steel's formidable strength.
- **Hygienic Simplicity:** Low-maintenance, nonabsorbent and withstands intense cleaning.
- **Sleek Presentation:** Adds modern sophistication and a smart appearance to Smart industrial systems.



No optical bonding

Optical bonding



Optical Bonding for Clear Visibility

Optical bonding eliminates the air gap between the LCD and touch panel, significantly reducing reflections to improve display clarity while preventing condensation in humid or washdown environments.

Resilient, Responsive Touch Technologies

Single-touch resistive and multi-touch PCAP touchscreens support precise, gloved operation for industrial environments, with 7H hardened glass for PCAP touch and 3H hardened glass for resistive touch, providing scratch resistance. Optional high-brightness displays improve visibility in bright conditions.





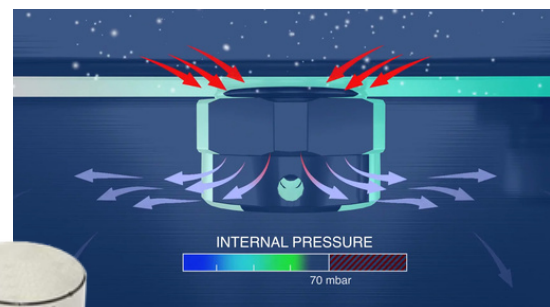
Scalable M.2 Expansion for Wireless Connectivity

The SIO-300-ASL and MTL Series support cellular connectivity via an M.2 B-Key expansion slot on the 21.5" and 23.8" models, enabling 4G LTE or 5G integration, and also support Wi-Fi 6E for high-speed wireless networking



Waterproof M12 Connectors, Straight AC-in Power, and Pressure Valve

The SIO-300-ASL and MTL Series uses industrial-grade M12 connectors to provide secure, sealed power and I/O connections during washdown operations, while an integrated stainless steel pressure valve equalizes internal pressure to reduce condensation and maintain enclosure integrity.

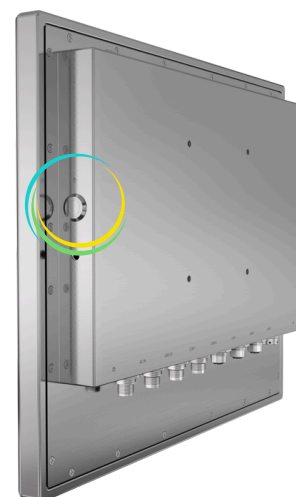


Direct AC power input

Direct 110–240V AC power input simplifies installation in in-line factory systems while preserving a sealed, industrial-grade design for hygienic environments.

Sustained Operation During Washdowns

Native touchscreen enable/disable controls prevent accidental touch activation during washdowns while supporting continuous operation in hygienic industrial environments.



We Design, Manufacture, and Service Customers Around the World



SIO-300 Series Washdown Stainless Steel Panel PC.



Model	SIO-315-ASL	SIO-W315-ASL	SIO-W321-ASL	SIO-W324-ASL	SIO-W321-MTL	SIO-W324-MTL
LCD Size / Aspect	15.0" (4:3)	15.6" (16:9)	21.5" (16:9)	23.8" (16:9)	21.5" (16:9)	23.8" (16:9)
Dimensions (WxHxD)	385 x 310 x 49.5 mm	425 x 276 x 49.5 mm	588.5 x 380 x 52.8 mm	623 x 417 x 54 mm	588.5 x 380 x 52.8 mm	623 x 417 x 54 mm
Touch Technology	Projected Capacitive (2-point, glove mode)					
Rugged Protection	Full System IP66 / IP69K, 7H Glass Hardness, IK07 Impact Protection					
CPU	Intel® Processor N97 (4 cores, up to 3.60 GHz, 12W) / Intel Atom® x7835RE Processor (8 cores, up to 3.60 GHz, 12W)				Intel® Core™ Ultra 5 125U	
Memory	1x DDR5 4800 MT/s SO-DIMM, up to 16 GB				1x 262-pin DDR5 5600 SO-DIMM, up to 48GB	
Storage	1x M.2 B-Key 2242 (NVMe / SATA)		1x M.2 B-key 2242/3042 NVMe/SATA + 1x 2.5" SATA SSD (optional)		1x M.2 M-Key for NVMe / SATA, auto detect	
Expansion	M.2 E-Key (optional Wi-Fi 6E)		M.2 E-Key + M.2 B-Key (optional 4G/5G cellular)		1x M.2 B-Key for 4G/5G, 1x M.2 E-Key for Wi-Fi / Bluetooth	
I/O Ports	2x 2.5GbE LAN (M12 X-Code), 2x COM Ports (RS-232/422/485, M12 A-Code), 1x M12 A-Code (2x USB 2.0), Power On/Off					
Wireless Antenna	Up to 2 external antennas		Up to 4 external antennas			
Power Input	110–240 V AC, M12 S-Code					
Operating Temp.	-10 °C to 50 °C					
Construction	SUS316 Stainless Steel, Optical Bonding					
Certifications	CE, FCC Class A					
Mounting Options	VESA 100x100 / 200x100, Yoke (opt.)					