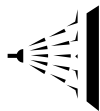# SIO Series IP66/69K Stainless Steel Touchscreen Computer

All in One Washdown Reliability

From agriculture to modern virology studies, diverse industrial sectors are embracing Industry 4.0 for improved efficiency, safety, and hygienics. In these spaces that require the utmost cleanliness, C&T's IP66/69K rated SIO Series is an all-in-one touchscreen computer with a rich display that grants exceptional control and automation capabilities. The SIO's remarkable suitability to hygienic environments simplifies integrations while enabling intuitive HMI, process automation and workload consolidation.
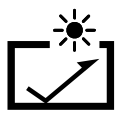
Built with a sealed IP-rated SU316 stainless-steel enclosure, the SIO Series is ideal for Industry 4.0 solutions in food and beverage processing, pharmaceutical manufacturing, and cleanroom settings.
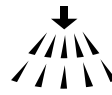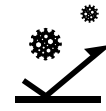
M12 Connectors	Full IP66/69K	Optical Bonding	Pressure VENT	Full SUS 316	2-Touch PCAP

Key Features

- All-in-One IP66/69K stainless steel panel PC and touchscreen HMI

- Mainstream automation line of screen sizes: 15" - 23.8"

- Slim bezel design and fanless cooling

- 7H Tempered touch glass for rugged responsive touch technologies

- Optical Bonding for ultimate clarity and longevity

- Wireless IoT Versatility

- Flexible stainless steel mounting options: Panel, VESA, or Yoke

Agriculture	Mining	Livestock

Food & Beverage	Pharmaceutical	Cleanrooms

Embedded SoC for Low Power Processing and Performance

Expanded compute, graphic, and media capabilities for industrial IoT applications. The robust SoC enables agile I/O connectivity and device security at low power consumption that is perfect for in-line HMI and industrial panel PCs.

- Intel® Celeron® Processor J1900 or Intel 8th GenMobile-U i5 8365UE Quad Core Processor
- 1x 204-pin DDR3L SO-DIMM, max 8GB or 1x 260-pin DDR4 2400MHz SO-DIMM , max 32GB
- 1x mSATA
- 2x M12 LAN, 4x USB 2.0, 2x M12 COM
- 1x Full-size Mini PCIe for expansion
- Supports Straight AC-in (110V to 240V AC) power input
- TPM 2.0

Reinforced for Aggressive Washdowns

The SIO Series is a fully IP66/69K rated system that is designed to sustain high pressure, high temperature system washdowns that are commonly found in hygienic and aseptic environments. Industrial grade M12 locking I/O provides enhanced protection from water and debris, allowing the system to remain tightly sealed during cleaning processes. Optical bonding between the LCD and touch panel helps increase touch accuracy, preserve clarity, and prevent condensation in humid conditions
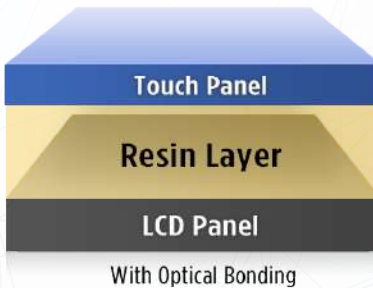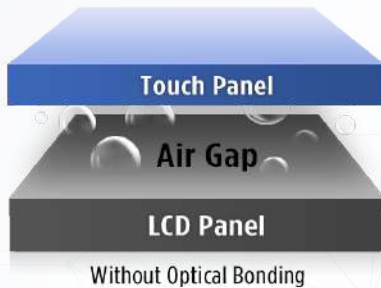
Stainless Steel: Enhanced Durability

A low-profile, stainless-steel solution offers reliable and structural durability and corrosion resistance suited to their exposure. Built with Stainless Steel SUS316 (Type 316), it provides the SIO Series with lasting utility including:

- 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.
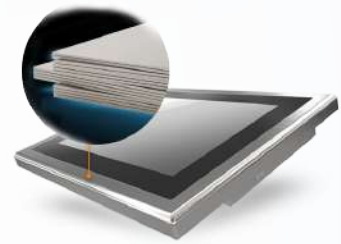
Optical Bonding for Ultimate Clarity and Long-Term Reliability

Optical bonding fills in the vulnerable air gap between the touch and LCD panel with durable resin. Industrial panels with optical bonding yield better durability, brighter images, increased touch accuracy and readability, and most importantly, prevents condensation in humid, damp environments.
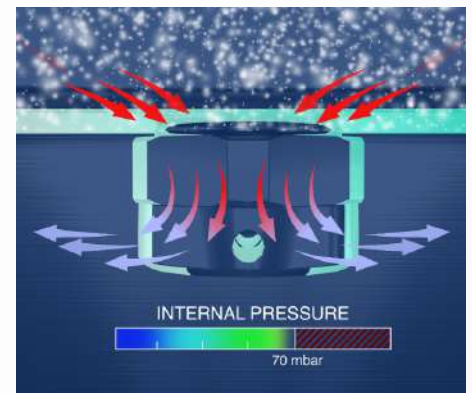

Touch Panel
Air Gap
LCD Panel
Without Optical Bonding

Touch Panel
Resin Layer
LCD Panel
With Optical Bonding

Reliable And Responsive Touch Technologies

2-point PCAP touchscreen technology offers precise, natural interaction for unique industrial workspace conditions. The PCAP touch registers gloved activity for industrial use cases, while 7H tempered glass provides scratch and wear resistance. A native touchscreen control allows the device to remain on throughout high pressure washdowns.

Ruggedized Stainless Steel Pressure Valve

An automatic pressure valve keeps the SIO safe by balancing the internal pressure that may be affected by external environmental factors. It regulates internal pressure, protecting the PC from damage due to temperature fluctuations and preventing condensation. The valve also acts as a safety measure, preventing failures in sudden pressure increases, ensuring overall reliability and safety for the SIO in harsh industrial deployments.

INTERNAL PRESSURE

70 mbar

Ultimate Reliability and Industrial-Grade Quality

- Stainless steel SUS316 construction
- Passive cooling and fanless design
- Industrial grade I/O with locking M12 connectors
- -20°C to 55°C operating temperature
- Shock & vibration resistance
- Optical bonding for clarity and longevity

We Create World-Class Edge Computers
For Your Industry-Leading Solutions

NEW

SIO-200 SERIES

	SIO-215-J1900	SIO-W215-J1900	SIO-W221-8365UE	SIO-W224-8365UE
Processor	Intel® Celeron® Processor J1900, Quad Core, 2MB Cache, 2.0 GHz		Intel® Core™ i5-8365UE Processor 6M Cache, up to 4.10 GHz	
Memory	1x 204-pin DDR3L SODIMM. max up to 8GB		1x 260-Pin DDR4 2400MHz SO-DIMM slot, Max 32GB	
LAN	2x LAN by M12 X-Code 8-pin			
I/O, Others	2x RS-232/422/485 by M12 A-Code 8-pin 4x USB 2.0 by M12 A-code 8-pin 2x WiFi Antenna (Optional) Power On/Off, Reset IP68/IP69K SUS 316 Vent			
Storage	1x mSATA			
Internal Expansion Slot	1x Full-size Mini PCIe			
Power	AC iN 110V ~ 240V, M12 S-code 4-pin			
Operating Temperature	-20°C to 55°C		-20°C to 50°C	
LCD Size	15" (4:3)	15.6" (16:9)	21.5" (16:9)	23.8" (16:9)
LCD Brightness (cd/m2)	300	450	350	450
IP Level	Full System IP66/IP69K			
Dimensions (W x D x H)	Resistive 5-wire >3H, Projected Capacitive 7H			