

# SWBOX-ASL

- Stainless Waterproof Computer
- Fanless Embedded Computer

## Features

- Intel® Atom® Processor X Series (Amston Lake)
- SUS304 stainless; full-body IP69K
- M12 waterproof I/O; 2 x 2.5GbE (M12)
- Rich M12 ports: USB, COM, DIO
- 10-28V DC via M12



## Specifications

Model Name	SWBOX-ASL			
Chassis	Color	Natural (brushed stainless steel)		
	Dimensions (WxDxH) (mm)	226.4 x 178.5 x 81		
	System Fan	Fanless		
	Chassis Construction	SUS304 enclosure, brushed finish		
Motherboard	CPU	Intel Atom® Processor X Series (Amston Lake) Intel® Atom™ x7433RE on-board CPU Intel® Atom™ x7835RE on-board CPU		
	Chipset	SoC		
	Memory	1 x SO-DIMM DDR5 4800 (8GB pre-installed) (up to 16GB)		
	Storage	HDD Bay	1 x 2.5" SATA 6Gb/s HDD/SSD bay	
I/O Interfaces	Ethernet	2 x 2.5GbE (M12, 8-pin, X code, female, Intel® I226-IT controller) 1 x 1GbE Fiber LAN (waterproof I/O connector) via fiber module (Optional)		
	USB	1 x USB 3.2 Gen1 (M12, 8-pin, X code, female) 2 x USB 2.0 (M12, 8-pin, A code, female)		
	COM	2 x RS232/422/485 (2.0 kV isolation)(M12, 12-pin, A code, female)		
	Digital I/O	1 x 8Bit GPIO (M12, 12-pin, A code, female)		
	CAN	2 x CANBUS (2.0 kV isolation)(M12, 8-pin, A code, female)		
	Display Interface	2 x HDMI™ 1.4b (Waterproof connector, female)		
Internal Expansions	M.2	1 x 2280 M-key (PCIe Gen3 x2) 1 x 2230 A-key (PCIe Gen3 x1 /USB 2.0) 1 x 3042/52 B-key (PCIe Gen3 x1 /USB 2.0) 1 x On-board SIM card socket (hinge type) for M.2 B key		
		Power	Power Input	10-28V DC via M12 (5-pin, A-Code, male) Accessory: M12 to Mini-Din 4P Female power cable (included)
Reliability	Power	Power Consumption	12V @ 3A (Intel® Atom x7835RE with 8GB memory)	
		Mounting	Mounting	Wall mount
			IP Level	Full body IP69K (IEC 60529:2013 / ISO 20653:2023)
			Operating Temperature	-40°C ~ 70°C (SSD installed)
			Storage Temperature	-40°C ~ 85°C, 10% ~ 95%, non-condensing
			Operating Shock	IEC68-2-27 half-sine, 5G, 11ms, 100 shocks (SSD)
			Operating Vibration	Random Vibration Mode, MIL-STD-810H 514.8C-1 (SSD)
			Weight (Net/Gross)	2.58kg / 4.15kg
			Safety / EMC	CE, FCC
			Watchdog Timer	Programmable 1 ~ 255 sec/min
OS	Supported OS	Windows® 10/11 IoT Enterprise/ Linux		

\* IP rating is validated under specified test conditions; protection performance depends on proper connector mating and installation.

**Full-body IP69K Washdown Protection**

Full-body IP69K protection built for high-pressure hot-water washdown.



**SUS304 Brushed Stainless Enclosure**

SUS304 brushed stainless enclosure with natural finish—corrosion resistant and easy to clean for hygiene-critical environments.



**Waterproof M12 I/O, Secure Connections**

Rugged M12 waterproof I/O delivers secure, vibration-proof connections for industrial washdown setups.



**10–28V DC Input, Install-Ready Power Kit**

Wide-range 10–28V DC input via M12. M12 to Mini-Din 4P Female power cable included for fast cabinet wiring.



**USB / COM / DIO / LAN**

**Food & Beverage Washdown Line**

Built for daily washdown on food production lines. IP69K protection and stainless enclosure help maintain hygiene with minimal downtime.



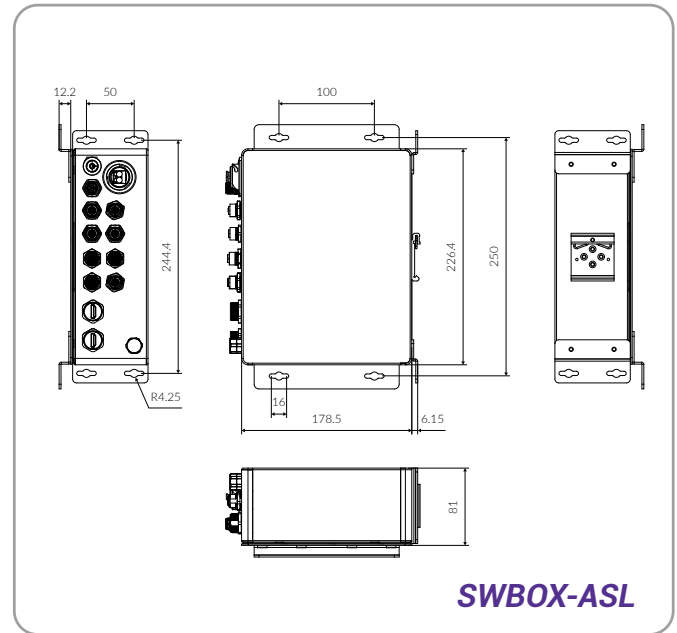
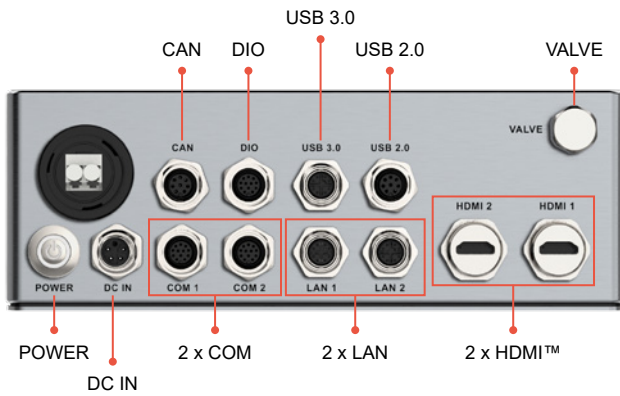
**Pharma / Chemical Processing Area**

Designed for harsh industrial areas where corrosion resistance and reliable sealing matter. Stainless construction and waterproof I/O support stable operation and easy cleaning.



Fully Integrated I/O

Dimensions (Unit: mm)



SWBOX-ASL

Ordering Information

Model	Description
SWBOX-ASL-R3C-R10	Rugged Fanless Stainless System (IP69K) w/ Intel® Atom® x7433RE, 8GB DDR5, M12 I/O, Dual 2.5GbE, RS-232/422/485, CAN, GPIO, 10-28V DC.
SWBOX-ASL-R4C-R10	Rugged Fanless Stainless System (IP69K) w/ Intel® Atom® x7835RE, 8GB DDR5, M12 I/O, Dual 2.5GbE, RS-232/422/485, CAN, GPIO, 10-28V DC.

Options

Item	Part No.	Description
Fiber Module	iuOF-1G1PW-WF1-R10	IEI 1G USB optical fiber Module
DIO cable	32031-000700-100-RS	1000mm M12 A code 12pin Male to DB15 Male
CAN cable	32005-006400-100-RS	1000mm M12 A code 8pin Male to DB9 Male
COM cable	32005-006300-100-RS	1000mm M12 A code 9pin Male to DB9 Male
Fiber cable	32903-000001-100-RS	1000mm Optical Fiber Cable, Single mode
HDMI cable	32012-003800-100-RS	1000mm waterproof Type-A Male to HDMI Type-A female
LAN cable	32013-007300-100-RS	1000mm M12 X code 8pin Male to RJ45 female
USB 3.0 cable	32001-033700-100-RS	1000mm waterproof Type-A Male to USB3.0 Type-A female
M.2 Cooling Module	M2-SSD-HS-01-R10	M.2 2280 SSD Cooling Module Rated for 3 W heat dissipation
TPM Module	TPM-IN03-R10	20-pin Infineon SPI TPM2.0 module, software mangement tool
Adapter Power	63040-010120-300-RS	Adapter Power;FSP120-AHAN3;9NA1206708;Active PFC;Vin:90~264VAC;120W;Dim:75.6*151.3*25.4mm;Plug=6.5mm;Cable=1500mm;Erp(NO LOAD 0.15W);Vout:12VDC;Din 4Pin/lock;CCL;RoHS
Power Cord	32702-003600-100-RS	POWER CORD;EUROPEAN CODE(VDE) ;2;1000mm;;(A)PLUG:LT-322(16A 250V);(B)CONNECTOR:LT-501(10A 250V)

Packing List

1 x Power Cable	1 x USB2.0 Cable	1 x LAN Cable	4 x Mounting bracket
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