

POC-766AWP

IP67 Waterproof Computer with Intel® Core™ i3-N305, 2x 2.5GbE and isolated COM ports



Key Features

- IP67-rated waterproof and dustproof design
- Intel® Alder Lake Core™ i3-N305 with 8 E-cores
- -25 °C to 70 °C temperature operation
- 2x 2.5Gb Ethernet ports via M12 X-coded connectors
- 1x isolated RS-232, 1x isolated RS-422/485 via M12 A-coded connector
- 3x isolated DIO and 1x CAN2.0B via M12 A-coded connector
- 8-35V DC input with ignition power control input via M12 A-coded connector

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Introduction

POC-766AWP is Neosys' new-generation AWP-series waterproof fanless embedded computer, featuring upgraded performance and enhanced rugged design. Powered by the Intel® i3-N305 processor and supporting DDR5 memory, it delivers a major boost in performance within a fully sealed IP67-rated enclosure. Built with stainless steel and aluminum, it provides two thermal solutions: direct-contact cooling inside metal cabinets and fanless cooling for standalone installation. POC-766AWP ensures reliable operation for demanding industrial and outdoor applications.

Engineered for industrial reliability, POC-766AWP features rugged I/O connectivity designed for demanding field environments. It provides dual 2.5GbE M12 X-coded connectors for secure, vibration-resistant Ethernet connections, as well as one isolated RS-232 and one isolated RS-422/485 port to ensure stable data transmission and protection against electrical surges. The system also supports CAN bus and isolated Digital IO, along with a Mini-PCIe slot for wireless WiFi or LTE modules. Additionally, two internal USB 3.2 ports and one HDMI interface are available for use in non-waterproof environments, offering convenient access for system configuration or peripheral expansion.

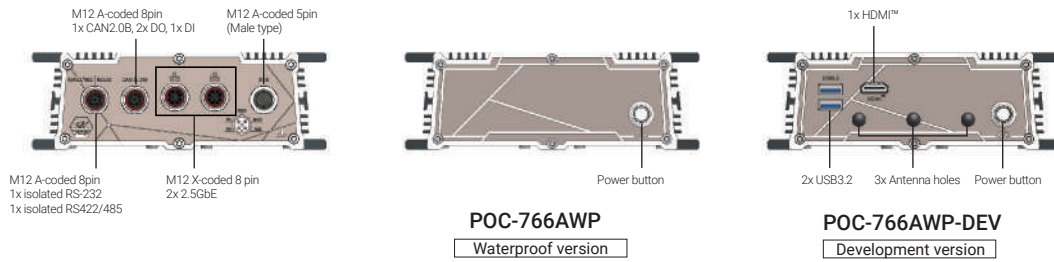
POC-766AWP delivers IP67-level protection with an optimized balance between performance and cost. Its compact design and M12 connectivity guarantee protection against moisture, vibration, and dust, ensuring continuous operation in harsh environments. Designed for real-world durability and minimal maintenance, POC-766AWP is ideal for applications such as agriculture, outdoor equipment, and industrial vehicles.

Specifications

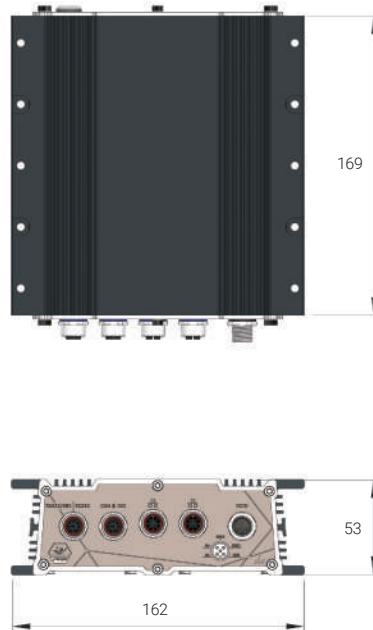
System Core	
Processor	Intel® Alder Lake Core™ i3-N305 processor (8C/8T, 1.8/3.8 GHz, 15W TDP)
Graphics	Integrated Intel® UHD Graphics with 32EUs
Memory	1x DDR5-4800 SDRAM up to 16 GB (one SODIMM socket)
TPM	Supports dTPM 2.0
Front I/O Interface	
Ethernet	2x 2.5Gb Ethernet ports by Intel® I226-IT via M12 X-coded, 8-pin connector
Serial Port	1x isolated RS-232 port (COM1) and 1x isolated RS-422/485 ports (COM2) via M12 A-coded, 8-pin
CAN Bus & DIO	1 x isolated CAN2.0B and 1-CH isolated DI and 2-CH isolated DO via M12 A-coded, 8-pin
Rear I/O Interface	
USB	2x USB 3.2 Gen2 x1 ports in type-A connectors
Video Port	1x HDMI1.4b, Supporting 3840 x 2160 30Hz
Storage Interface	
M.2	1x M.2 2280 M key socket (PCIe Gen3 x4) for NVMe SSD (supports SATA signal)
Internal Expansion Bus	
Mini-PCIe	1x full-size mini PCI Express socket with internal micro SIM socket

Power Supply	
DC Input	8~35V DC input with ignition power control input via M12 A-coded, 5-pin connector
Mechanical	
Dimension	161.5 mm (W) x 169 mm (D) x 52.7 mm (H)
Weight	1.8 kg
Mounting	Wall-mount or DIN-rail mount (Optional)
Environmental	
Operating Temperature	-25°C ~ 70°C
Storage Temperature	-40°C ~ 85°C
Humidity	10%~90% , non-condensing
Vibration	MIL-STD-810H, Method 514.8, Category 4
Shock	MIL-STD-810H, Method 516.8, Procedure I
EMC	CE/FCC Class A, according to EN 55032 & EN 55035
Safety	UL 62368-1, IEC 62368-1
Ingress Protection	IP67

Appearance



Dimensions



Unit : mm

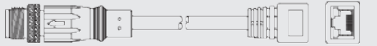
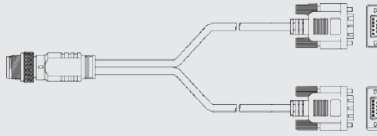
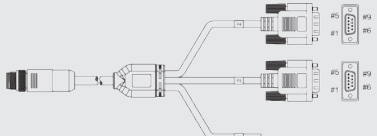
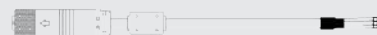
Ordering Information

Model No.	Product Description
POC-766AWP	IP67 Waterproof Computer with Intel® Core™ i3-N305, 2x 2.5GbE and isolated COM ports
POC-766AWP-DEV	Developer Kits for IP67 Waterproof Computer with Intel® Core™ i3-N305, 2x 2.5GbE, Isolated COM Ports

Optional Accessories

PA-120W-OW	120W AC/DC power adapter with 20V, 6A DC output, cord end terminals for terminal block. Operating temperature : -30 to 70°C
AccsyBx-mPCIe-bkt-POC-766AWP	Mini-PCIe thermal bracket kit for POC-766AWP
DINRAIL-POC-766AWP	DIN-Rail mounting assembly for POC-766AWP
ThermalPad-90-POC-766AWP	Thermal pad for POC-766AWP, 65.5x164x0.5mm

POC-766AWP

Type	Model Name	Description
	Cbl-M12X8M-RJ45F-100CM	M12(8-pole-X-coded) to RJ45, CAT6A, Length : 100CM
	Cbl-M12A8M-2DB9M-180CM	M12 (8-pole-A-coded male) to 2x DB9 male, Length: 180CM
	Cbl-M12A8M-2DB9M_OW2-180CM1	M12 (8-pole-A-coded male) to x2 DB9 Male+2P, Length: 180CM
	Cbl-M12A5F-OW3-180CM1	M12(5-pole-A-code Female) to 3P cord end terminal, Length:180CM

Cable Kit

POC-766AWP M12 Cable kit		
Cblkit-M12-POC-766AWP	2x Cbl-M12X8M-RJ45F-100CM	1x Cbl-M12A5F-OW3-180CM1
	1x Cbl-M12A8M-2DB9M-180CM	1x Cbl-M12A8M-2DB9M_OW2-180CM1