

# POC-465AWP

IP66 Waterproof Computer with Intel® Atom® x6425E, 2x 2.5GbE and Isolated COM Ports

## Key Features



- IP66-rated waterproof and dustproof design
- Intel® Elkhart Lake Atom® x6425E quad-core 2.0GHz/ 3.0GHz 12W processor
- 2x 2.5GbE Ethernet ports via M12 X-coded connectors
- 1x isolated RS-232 and 1x isolated RS-422/485 via M12 A-coded connectors
- 2x USB 2.0 ports via M12 A-coded connectors
- 1x VGA port via M12 A-coded connector
- 8-35V DC input with ignition power control input via M12 A-coded connector



## Introduction

POC-465AWP is a new segment of Neousys fanless computers featuring an IP66 rating based on Intel® Elkhart Lake Atom. The acronym AWP stands for affordability, waterproof, and protection. In short, the POC-465AWP is designed to solve your everyday environmental challenges. With IP66 waterproof protection in a stainless steel and aluminum chassis, the air-tight system prevents internal PCBA corrosion in high salinity or humidity situations. Secondly, the hermetic enclosure can be deployed into grimy or dusty air-polluted environments such as a farm or mining site without being affected. The system also features -25°C to 70°C wide operating temperature capability and an efficient heat dissipation design to minimize thermal throttling.

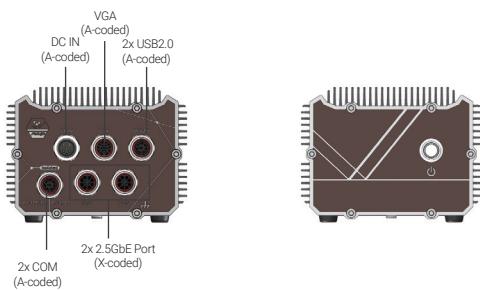
Connection-wise, POC-465AWP comes with M12 connectors to ensure connection in demanding, shock, and vibration environments. The system has two 2.5G Ethernet ports, one isolated RS-232, and one isolated RS-422/485. The isolated design protects the motherboard from voltage spikes that may damage internal components. It also has a VGA, two USB2.0, an M.2 M key to support SATA SSD, and a mini-PCIe for wireless WiFi/ LTE, CAN bus, etc.

Combining IP66, M12 and great thermal design, POC-465AWP is reliable and highly tolerant to challenging conditions to fulfill versatile applications. Its ultra-compact size fits easily into confined spaces, and its waterproof capability makes it suitable for outdoor applications like wildfire detection, unmanned vehicle; or harsh environments like food / beverage manufacturing and pharmaceutical processing. The IP66 rating is an additional function that can enhance a product's value and quality, and such is the case with Neousys' POC-465AWP.

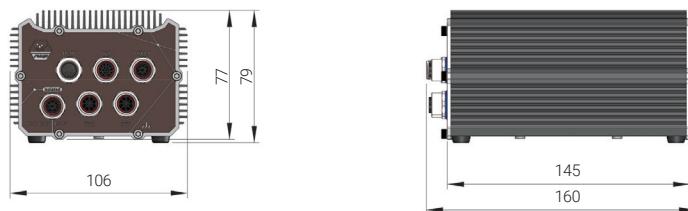
## Specifications

System Core		Power Supply	
Processor	Intel® Elkhart Lake Atom® x6425E quad-core 2.0GHz/ 3.0GHz 12W processor	DC Input	8-35V DC input with ignition power control input via M12 A-coded, 5-pin connector
Graphics		Mechanical	
Graphics	Integrated Intel® UHD Graphics	Dimension	106 mm (W) x 159.7 mm (D) x 79 mm (H)
Memory	Up to 32 GB DDR4-3200 SDRAM by one SODIMM socket	Weight	1.45kg
TPM	Supports TPM 2.0 (fTPM/ dTPM)	Mounting	Wall-mount (optional)
I/O Interface		Environmental	
Ethernet	2x 2.5G Ethernet ports by Intel® I226-IT via M12 X-coded, 8-pin connector	Operating Temperature	-25°C ~ 70°C
Native Video Port	1x VGA connector, supporting 1920 x 1200 resolution, via M12 A-coded, 17-pin connector	Storage Temperature	-40°C ~ 85°C
Serial Port	1x isolated RS-232 port (COM1) and 1x isolated RS-422/485 ports (COM2) via M12 A-coded, 8-pin connector	Humidity	10%~90%, non-condensing
USB	2x USB 2.0 ports via M12 A-coded, 8-pin connector	Vibration	Operating, MIL-STD-810G, Method 514.6, Category 4
Storage Interface		Shock	Operating, MIL-STD-810G, Method 516.6, Procedure I, Table 516.6-II
M.2	1x M.2 2280 M key socket for SATA SSD	EMC	CE/FCC Class A, according to EN 55032 & EN 55035
Internal Expansion Bus			
Mini-PCIe	1x full-size mini PCI Express socket with internal micro SIM socket		

## Appearance



## Dimensions



Unit : mm

## Ordering Information

Model No.	Product Description
POC-465AWP	IP66 Waterproof Computer with Intel® Atom® x6425E, 2x 2.5GbE and Isolated COM Ports

## Optional Accessories

PA-60W-OW	60W AC/DC power adapter with 12V, 5A DC output, cord end terminals for terminal block. Operating temperature : -30 to 60 °C
WMkit-POC465AWP	Wall-mount assembly for POC-465AWP

# POC-465AWP Series

Type	Model Name	Description
	Cbl-M12X8M-RJ45F-100CM	M12( 8-pole-X-coded) to RJ45, CAT6A, Length : 100CM
	Cbl-M12A8M-2U2TA-180CM1	M12 (8-pole-A-coded) to 2xUSB 2.0 type A (female), Length: 180CM
	Cbl-M12A8M-2DB9M-180CM	M12 (8-pole-A-coded male) to 2x DB9 male, Length: 180CM
	Cbl-M12A17M-VGA-180CM3	M12 (17-pole-A-coded-S) to VGA (male), Length : 180CM
	Cbl-M12A5F-OW3-180CM1	M12(5-pole-A-code Female) to 3P cord end terminal, Length:180CM

## Cable Kit

### POC-465AWP M12 Cable kit

Cblkit-M12-POC-465AWP	2x Cbl-M12X8M-RJ45F-100CM	1x Cbl-M12A8M-2U2TA-180CM1
	1x Cbl-M12A8M-2DB9M-180CM	1x Cbl-M12A17M-VGA-180CM3
	1x Cbl-M12A5F-OW3-180CM1	