

# Nuvo-9650AWP Series

Affordable IP65 waterproof Intel® 13th/12th-Gen Core™ computer with 4x M12 PoE+ and USB3.2 Type-C ports supporting DP display

## Key Features

- Intel® 13th /12th-Gen Core™ 24C/ 32T 35W/ 65W CPU
- IP65-rated waterproof and dustproof
- Up to 64GB DDR5 4800 SODIMM
- -25°C to 70°C wide-temperature fanless operation
- Up to 4x 802.3at GbE PoE+ ports via M12 X-coded connectors
- 1x USB3.2 Type-C port supporting alternative mode for DisplayPort and USB3.2 via waterproof connectors
- 8V to 48V DC input with built-in ignition power control



Preliminary

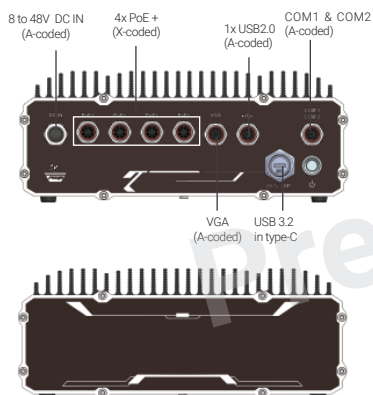
## Specifications

System Core	
Processor	Supporting Intel® 13th-Gen Core™ CPU (LGA1700 socket, 65W/ 35W TDP) - Intel® Core™ i9-13900E/ i9-13900TE - Intel® Core™ i7-13700E/ i7-13700TE - Intel® Core™ i5-13500E/ i5-13400E/ i5-13500TE - Intel® Core™ i3-13100E/ i3-13100TE
Chipset	Intel® H610E platform controller hub
Graphics	Integrated Intel® UHD Graphics 770 (32EU) / 730 (24EU)
Memory	Up to 64 GB DDR5 4800 SDRAM (two SODIMM slots)
TPM	Supports dTPM 2.0
I/O Interface	
Ethernet	1x Gigabit Ethernet port by Intel® I219-LM (M12 X-coded) 3x 2.5G Ethernet ports by Intel® I226-IT (M12 X-coded)
PoE+	Optional IEEE 802.3at PoE+ PSE for 4x 2.5GbE/GbE ports 100 W total power budget
USB 3.2	1x USB 3.2 Gen1 (5 Gbps) port in type-C waterproof connector 1x USB 3.2 Gen1 (rear side)
USB 2.0	2x USB 2.0 (M12 A-coded) 1x USB 2.0 (internal)
Video Port (Integrated Graphics)	1x DisplayPort in type-C waterproof connector, supporting 4096 x 2304 resolution 1x VGA (M12 A-coded), supporting 1920 x 1200 resolution 1x DisplayPort, supporting 4096 x 2304 resolution (rear side)
Serial Port	1x isolated RS-232 port (COM1) and 1x isolated RS-422/485 ports (COM2) via M12 A-coded, 8-pin connector

Storage Interface	
SATA HDD	2x Internal SATA port for 2.5" HDD/ SSD installation
M.2	1x M.2 2280 M key socket (PCIe Gen4 x4) for NVMe SSD
Internal Expansion Bus	
Mini PCI Express	2x full-size mini PCI Express socket (PCIe + USB2)
M.2 B key	1x M.2 2242/3052 B key socket with SIM slot for M.2 5G/ 4G module
Power Supply	
DC Input	8V to 48V DC input with built-in ignition power control
Mechanical	
Dimension	225mm (W) x 286mm (D) x 90mm (H)
Weight	5.25 kg
Mounting	Wall-mounting
Environmental	
Operating Temperature	Operating Temperature with 35W CPU -25°C – 70°C with 65W CPU -25°C – 70°C (configured as 35W TDP mode) -25°C – 50°C (configured as 65W TDP mode)
Storage Temperature	-40°C to 85°C
Humidity	10% to 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

\* For sub-zero operating temperature, a wide temperature HDD or Solid State Disk (SSD) is required.

## Appearance



## Dimensions

