



ARTS-7670

IP69K Waterproof Fanless Computer with Intel® 14th/13th/12th - Gen Core™ CPU



Features

- IP69K-rated dustproof and waterproof
- Intel® 14th/13th/12th-Gen Core™ 35W/ 65W CPU
- Rugged -40°C to 70°C fanless operation
- 4 x PoE+ 2.5GbE ports via M12 X-coded with 100W power budget
- 1 x waterproof USB3.2 Type-C port support DisplayPort and USB3.2 dual output
- 2 x isolated CANFD port via M12 A-coded
- 6 x USB 2.0, 1 x isolated RS-232 and 1x isolated RS-422/485 ports
- 9V to 48V DC input with built-in ignition power control
- E-Mark compliant & MIL-STD-810H Shock/ Vibration certified
- Support dTPM2.0 & Windows®11

System

CPU	Intel® 12/13/14 th -Gen Core™ CPU (LGA1700 socket, 65W/ 35W)
Memory	2 x DDR5 SO-DIMM sockets, support 4800 MHz up to 96GB
Chipset	Intel® Q670E platform controller
Graphics	Integrated Intel® UHD Graphics
LAN Chipset	4 x Intel® i226-IT 2.5GbE controller
TPM	Support dTPM2.0
Watchdog Timer	1~255 levels reset

I/O

Serial Port	1 x isolated RS-232 port (COM1) and 1 x isolated RS-422/485 ports (COM2) (via 1 x M12 A-coded, 8-pin connector)
USB Port	1 x USB 3.2 Gen1 (5 Gbps) port in type-C waterproof connector 6 x USB 2.0 (via 3 x M12 A-coded, 8-pin connector)
LAN	4 x PoE + 2.5GbE port via M12 X-coded
PoE	IEEE 802.3at PoE+ PSE for 4 x 2.5GbE ports 100W total power budget
CANBus	2 x isolated CANFD port (via 1 x M12 A-coded, 8-pin connector)
Display	1 x DisplayPort in Type-C waterproof connector, resolution up to 4096x2304@60Hz 1 x VGA (M12 A-coded, 17-pin connector), resolution up to 1920x1200@60Hz
Expansion Bus	2 x full-size mini-PCIe (PCIe Gen3x1 + USB2.0) w/ 1 x SIM card slot for Wi-Fi/BT/LTE module 1 x M.2 B-key 3042/3052 (PCIe Gen3x1 + USB3.0 +USB2.0) w/ 2 x SIM cards slot for 4G/5G module
Others	Support accelerometer(G-Sensor) and Gyroscope

Storage

Type	1 x M.2 M-key 2242/2280 (PCIe Gen4x4) for storage 2 x 2.5" SATA HDD/ SSD ; supports RAID 0/1
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Power Requirement

Power Input	9V to 48V DC input with built-in ignition power control, MAX 60V (M12 L-coded, 5-pin)
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Environmental

Operating Temp.	with 35W CPU -40°C ~ 70°C with 65W CPU -40°C ~ 70°C (configured as 35W TDP mode) -40°C ~ 50°C (configured as 65W TDP mode)
Storage Temp.	-40°C ~85 °C (-40°F ~ 185°F)
Operating Humidity	10% ~ 90%, (non-condensing)
Vibration	MIL-STD-810H, Method 514.8, Category 4
Shock	MIL-STD-810H, Method 516.8, Procedure I

Mechanical

Button	1 x waterproof Power button with LED (Green)
LED indicator	1 x PWR LED (Green), 1 x HDD LED (Red)
Antenna	4 x Antenna Holes (with rubber cover pre-installed)
Mounting	Desktop/ Wall-mount
Weight	4.2 Kgs
Dimensions (W x H x D)	264 x 92 x 225 mm
Waterproof	IP69K-rated dustproof and waterproof

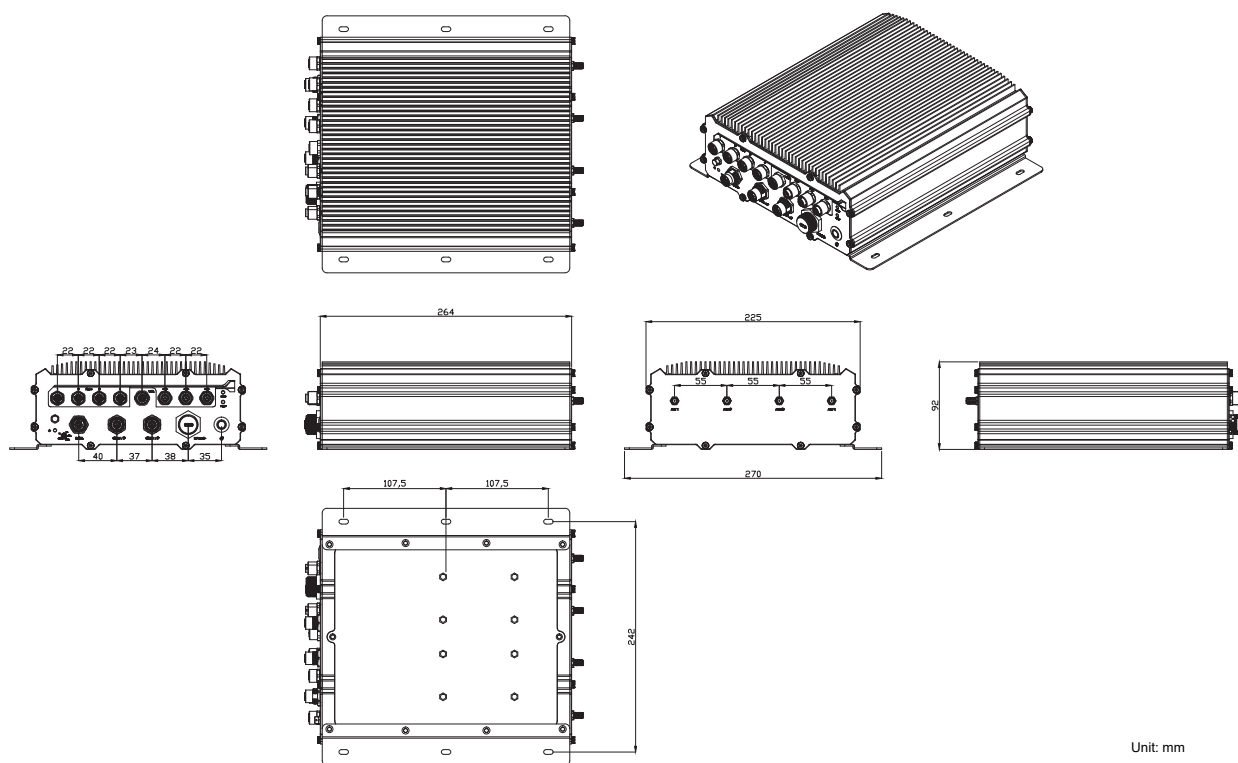
Qualification

Certification	CE/FCC Class A, E-Mark compliant
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OS Support

Windows® 10 / Windows® 11 / Linux Ubuntu 22.04
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Dimensions



Standard Accessories

WMK-7670 Wall Mounting Bracket Kit for ARTS-7670 Series



Optional Accessories

PAC-280W8C-MW-ES 24V/11.67A, 280W AC/DC Adapter , -30~+70°C, w/ EU & USA Power Cord



CBL-M12-7670

ARTS-7670 M12 cable kit, including:
 4x CBL-M12X8M-RJ45-50CM
 3x CBL-M12A8M-2U2TA-50CM
 1x CBL-M12A8M-2DB9COM2-50CM
 1x CBL-M12A8M-1DB9CAN2-50CM
 1x CBL-M12A17M-VGA-150CM



Cable Kit Details

Type	Item	Description
	CBL-M12X8M-RJ45-50CM	M12(8-pole-X-coded) to RJ45, CAT6, Length : 50CM
	CBL-M12A8M-2U2TA-50CM	M12 (8-pole-A-coded) to 2x USB 2.0 type A (female), Length: 50CM
	CBL-M12A8M-2DB9COM2-50CM	M12 (8-pole-A-coded) to 2x DB9 for COM1/COM2 (Male), Length: 50CM
	CBL-M12A8M-1DB9CAN2-50CM	M12 (8-pole-A-coded) to 1x DB9 for 2 x CANFD (Male), Length: 50CM
	CBL-M12A17M-VGA-150CM	M12 (17-pole-A-coded) to 1 DE15 VGA (Male), Length: 150CM



I/O Layout

