

WATERPROOF COMPUTER

WCO-3000-EHL

Advanced IP68/69K Waterproof Computer with Intel Atom® CPU, 1x DP, 2x LAN, 2x USB 3.2 Gen 2



Specifications

System	
Processor	Supports 11th Gen Intel® Atom® Processors X Series (Elkhart Lake) - Intel® Atom® Processor x6425E, Quad Core, 1.5 MB Cache, 1.8 GHz, 12W TDP
System Chipset	SoC integrated
LAN Chipset	1 GbE1: Intel I210 (Support Wake-on-LAN and PXE) 2.5 GbE2: Intel I225 (Support Wake-on-LAN and PXE)
Audio Codec	Realtek ALC888S
System Memory	1x 260-Pin DDR4 2400/2667/3200MT/s SODIMM. Max. up to 32 GB (non-ECC)
Graphics	Intel® UHD Graphics
BIOS	AMI 256Mbit SPI BIOS
Watchdog	Software Programmable Supports 1~255 sec. System Reset
AI Accelerator	Supports 1x Hailo-8™ module
TPM	TPM 2.0
Display	
Display Port	1x DisplayPort 1.4, DP++ (4096 x 2160@60Hz) or 1x HDMI (Optional)
Multiple Display	Single Display
Storage	
mSATA	1x mSATA shared by 1x Mini PCI Express
SSD/HDD	1x Internal 2.5" SATA HDD Bay
Expansion	
M.2	1x M.2 (B Key, 3042/3052, PCIe x 1 + USB 3.2 Gen2, Support 4G/5G/Hailo AI Module)
SIM Socket	2x Internal SIM socket
Mini PCIe	1x Full-size Mini PCIe
I/O	
Audio	Internal 1x Mic-in, 1x Line-out
CAN	2x CAN 2.0 A/B 2-pin Internal header
COM	1x RS-232/422/485 by M12 A-Code
LAN	2x RJ45 by M12 X-Code
Universal I/O Bracket	2x M12 Waterproof Cover for I/O Expansion
USB	2x USB 3.2 Gen 2 Type A (Waterproof)
Others	5x WiFi Antenna Holes 1x Power Switch 1x AT/ATX Switch, Internal 1x Remote Power On/Off, Internal 1x Internal CMOS Battery Cable
Operating System	
Windows	Windows 10
Linux	Linux kernel 5.X
Power	
Power Adapter	Optional AC/DC 12V/5A, 60W Optional AC/DC 12V/6.67A, 80W for PoE
Power Mode	AT, ATX
Power Ignition Sensing	Power Ignition Management (Optional)
Power Supply Voltage	DC IN 9~36V DC IN 48~110V, Optional
Power Connector	M12 S-Code 4-Pin
Power Protection	OVP (Over Voltage Protection) OCP (Over Current Protection) Reverse Protection
Environment	
Operating Temperature	-40°C to 60°C
Storage Temperature	-40°C to 85°C

Features

- Support Intel Atom® x6425E Processor
- 1x 260-pin DDR4 SODIMM. Max up to 32GB
- Single display supported by 1x Real 4K DisplayPort
- 2x LAN by M12 X-Code (2.5GbE and 1GbE)
- 1x RS-232/422/485 by M12 A-Code, 2x USB 3.2 Gen 2 (waterproof connector)
- 1x 2.5" SATA HDD bay and 1x mSATA (shared by 1x Mini PCIe)
- 1x Full-size mini PCIe for communication or expansion modules, 2x Internal SIM socket
- Full system IP68/69K level dustproof & waterproof
- 9 to 36VDC / 48 to 110VDC wide range power input supporting AT/ATX mode
- -40°C to 60°C extended operating temperature
- TPM 2.0 Supported
- Edge AI Ready with Hailo-8™ (26 TOPS / 2.5W)

Relative Humidity	10% to 95% (non-condensing)
Certification	CE, FCC Class A, IP68, IP69K
Vibration	IEC60068-2-64:2008 With HDD: 1 Grms (5 - 500 Hz, 0.5 hr/axis) With SSD: 5 Grms (5 - 500 Hz, 0.5 hr/axis) Designed to comply with MIL-STD-810G Method 514.7 Procedure I
Shock	IEC60068-2-27:2008 With SSD: 50G half-sin 11ms Designed to comply with MIL-STD-810G Method 516.7 Procedure I
Physical	
Dimensions	231 (W) x 292 (D) x 57 (H) mm
Construction	Extruded Aluminum with Heavy Duty Metal
Mounting Options	Wall Mounting

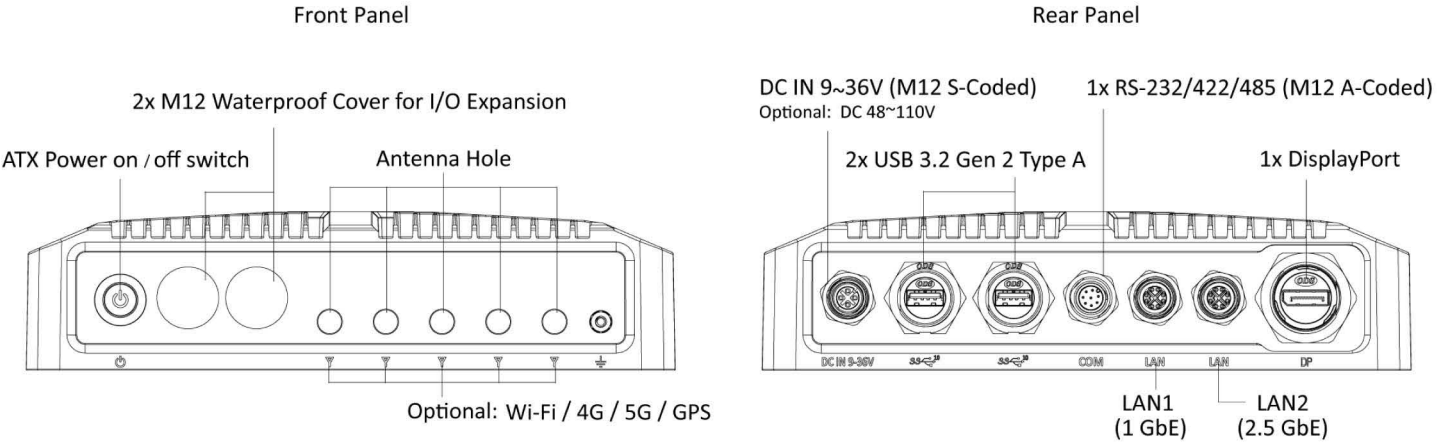
* All specifications and photos are subject to change without notice.

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External I/O Mechanical Layout

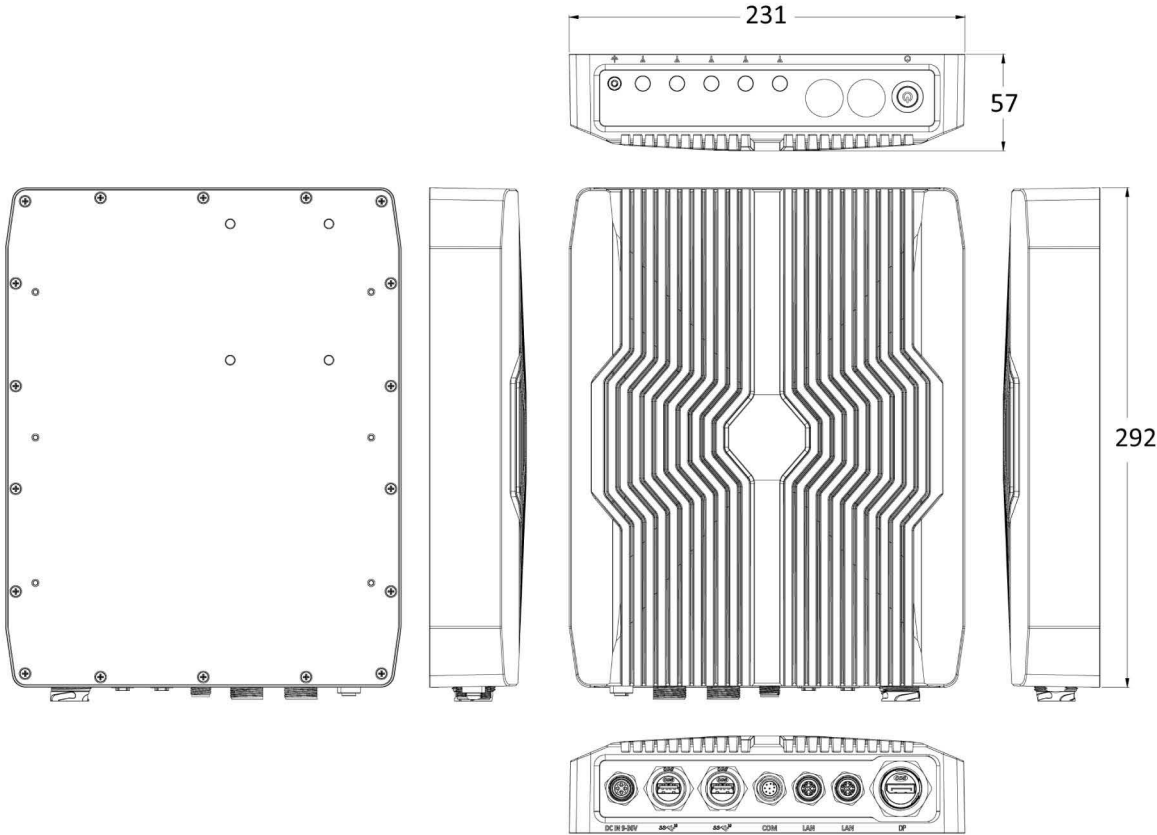


Optional Configurations for Additional Features

Model	HDMI	2 PoE	AI Hailo / 5G	IGN
WCO-3000-EHL	✓	✓	✓ Select One	✓
WCO-3000-EHL-110V	✓ Select One			

Dimension

Unit: mm



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Available Models	
Model No.	Description
WCO-3000-EHL-x6425E-P	Advanced IP69k Waterproof System with Intel® Atom® x6425E

Optional Accessories	
Model No.	Description
1-E09A08002	Adapter AC/DC 12V 6.67A 80W with 3pin Terminal Block Plug 5.0mm Pitch
1-E09A06008	Adapter AC/DC 12V 5A 60W with 3pin Terminal Block Plug 5.0mm Pitch
999930	Power Cord, 3-pin US Type, 180cm
1-TPCD00001	Power Cord, 3-pin UK Type, 180cm
1-TPCD00002	Power Cord, European Type, 180cm
1-TDPP00003	External M12 DisplayPort Cable (CT-DPC14-1/ODS)
1-TXXX00012	External M12 S-CODE 4P PWR Cable(CT-M12CF04S-PWR/ODS)
1-TUSB00016	External Waterproof USB 3.0 Cable(CT-USB30UA-C-J-2/ODS)
1-TCOM00011	External M12 A-CODE 8P COM Cable(CT-M12CF08-A-DB9M-1/ODS)
1-TLAN00006	External M12 X-CODE 8P LAN/PoE Cable(CT-M12CM08-X-RJJ-1/ODS)
1-THDM00002	External M12 HDMI Cable(CON-HDMIAM-P01/ODS)

Packing List	
1x WCO-3000-EHL	
1x Wall Mount Kit	
1x Waterproof Connector Cover Set	

Compliances and Standards	
Shock	IEC60068-2-27:2008 With SSD: 50G half-sin 11ms Designed to comply with MIL-STD-810G Method 516.7 Procedure I IEC60068-2-27:2008 Designed to comply with MIL-STD-810G Method 516.7 Procedure I
Vibration	IEC60068-2-64:2008 With HDD: 1 Grms (5 - 500 Hz, 0.5 hr/axis) With SSD: 5 Grms (5 - 500 Hz, 0.5 hr/axis) Designed to comply with MIL-STD-810G Method 514.7 Procedure I IEC60068-2-64:2008 Designed to comply with MIL-STD-810G Method 514.7 Procedure I
Operating Temperature	-40°C to 60°C IEC60068-2-1:2007 (Cold test procedure) IEC60068-2-2:2007 (Dry heat test procedure) IEC60068-2-3:2007 (Damp heat, steady state, test procedure) IEC60068-2-14:2009 (Wide temperature range thermal shock)
EMI	- FCC Class A (47 CFR part 15.109 and part 15.107) - CE - ICES-003 - UKCA

Exports And Tariff Codes	
ECCN	5A992.c
HTS	8471.50.0150
ScheduleB	84.71