



WATERPROOF COMPUTER

WCO-3000-EHL

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

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
- Wide Operating Temperature -40°C to 60°C
- TPM 2.0 Supported
- Edge AI Ready with Hailo-8™ (26 TOPS / 2.5W)



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 |

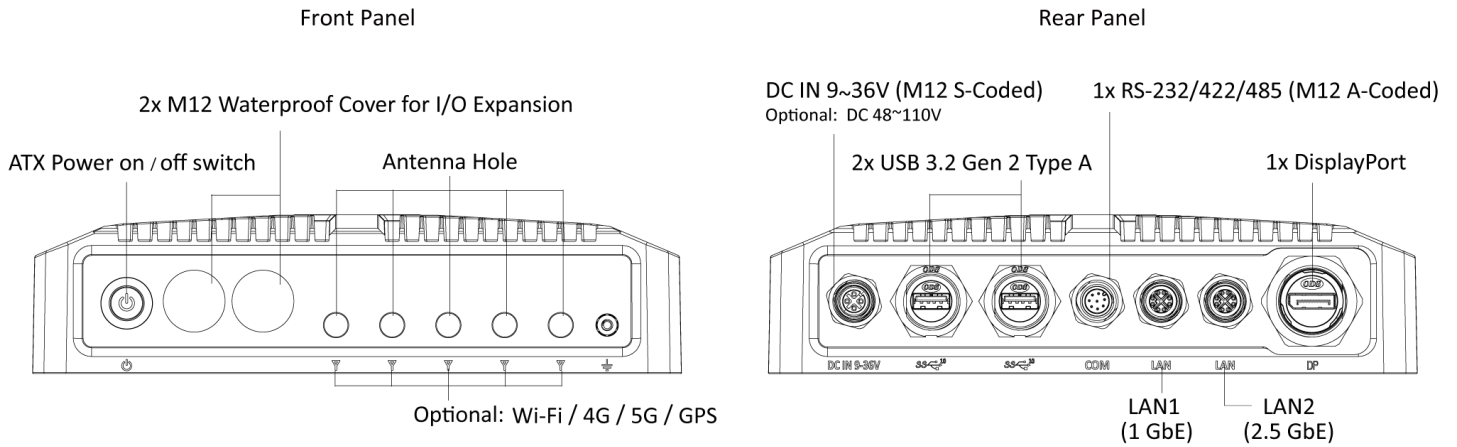
Environment

| | |
|-----------------------|---|
| Operating Temperature | -40°C to 60°C |
| Storage Temperature | -40°C to 85°C |
| 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 |

External I/O Mechanical Layout

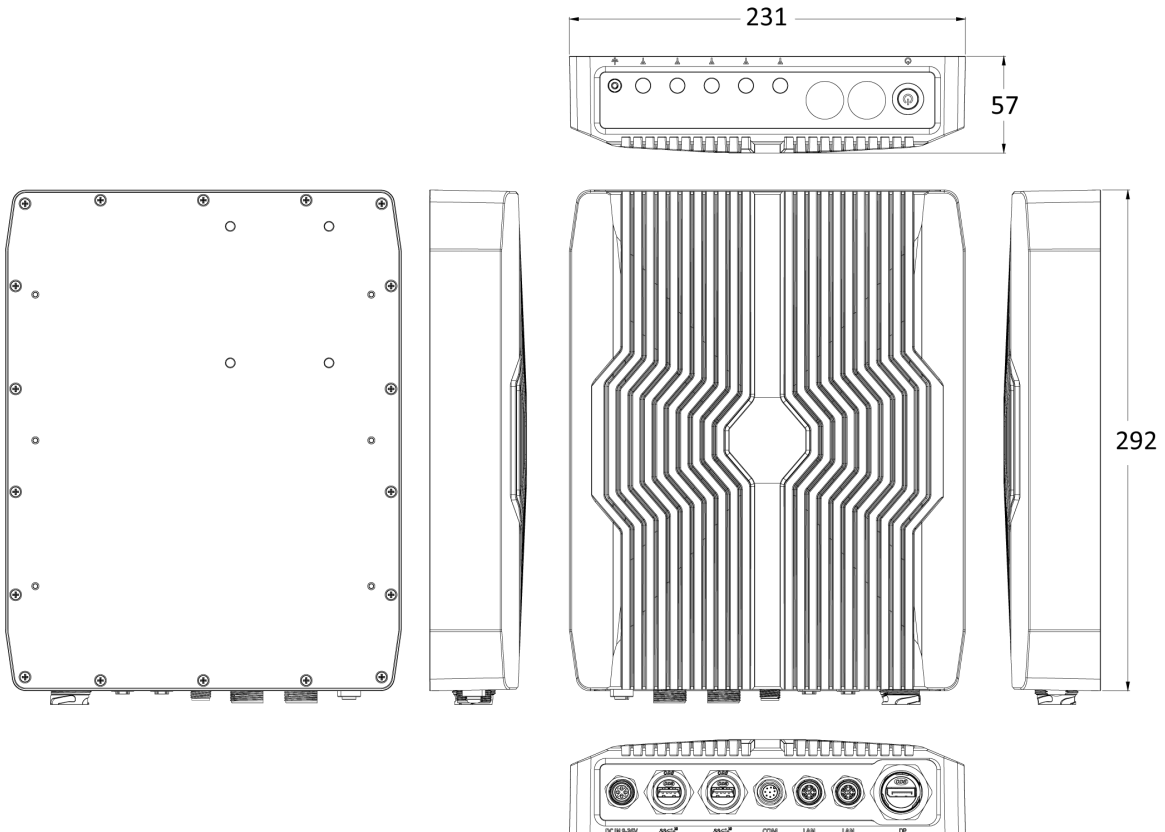


Optional Configurations for Additional Features

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

Dimension

Unit: mm



Available Models

| Model No. | Description |
|--------------------------|---|
| WCO-3000-EHL-x6425E | IP68/69K Waterproof System with Intel Atom Processor x6425E, 8GB RAM, 256GB SSD, 1x DP, 2x LAN, 2x USB 3.2 Gen 2 |
| WCO-3000-EHL-x6425E-110V | IP68/69K Waterproof System with Intel Atom Processor x6425E, 8GB RAM, 256GB SSD, 1x DP, 2x LAN, 2x USB 3.2 Gen 2, DC IN 48-110V |

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 |
| 1-TPCD00005 | 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