



## 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)<br>- 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)<br>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.<br>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<br>1x Power Switch<br>1x AT/ATX Switch, Internal<br>1x Remote Power On/Off, Internal<br>1x Internal CMOS Battery Cable    |
| Operating System      |                                                                                                                                                 |
| Windows               | Windows 10                                                                                                                                      |
| Linux                 | Linux kernel 5.X                                                                                                                                |
| Power                 |                                                                                                                                                 |
| Power Adapter         | Optional AC/DC 12V/5A, 60W<br>Optional AC/DC 12V/6.67A, 80W for PoE                                                                             |

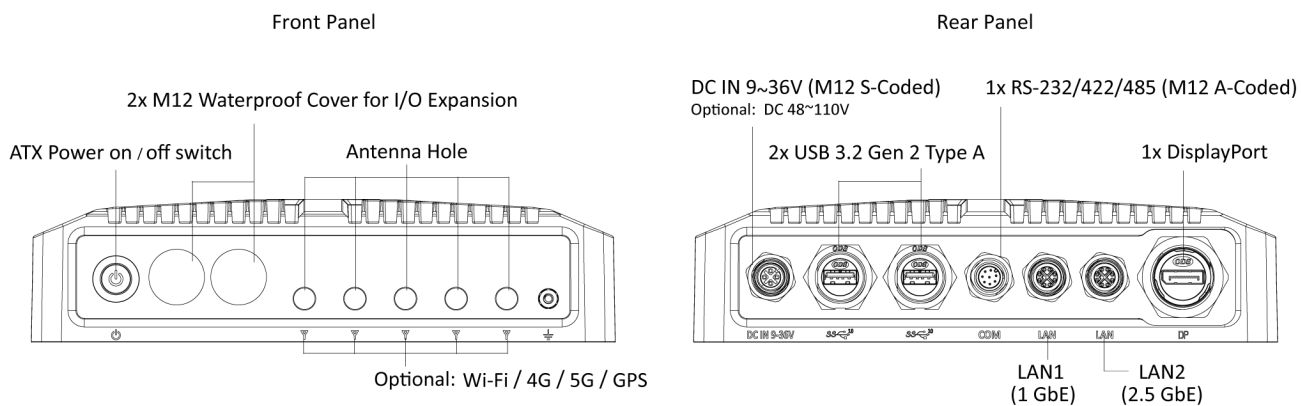
| Power Mode             | AT, ATX                                                                                                                                                                         |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Power Ignition Sensing | Power Ignition Management (Optional)                                                                                                                                            |
| Power Supply Voltage   | DC IN 9~36V<br>DC IN 48~110V, Optional                                                                                                                                          |
| Power Connector        | M12 S-Code 4-Pin                                                                                                                                                                |
| Power Protection       | OVP (Over Voltage Protection)<br>OCP (Over Current Protection)<br>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<br>With HDD: 1 Grms (5 - 500 Hz, 0.5 hr/axis)<br>With SSD: 5 Grms (5 - 500 Hz, 0.5 hr/axis)<br>Designed to comply with MIL-STD-810G Method 514.7 Procedure I |
| Shock                  | IEC60068-2-27:2008<br>With SSD: 50G half-sin 11ms<br>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.



## WCO-3000-EHL

### External I/O Mechanical Layout

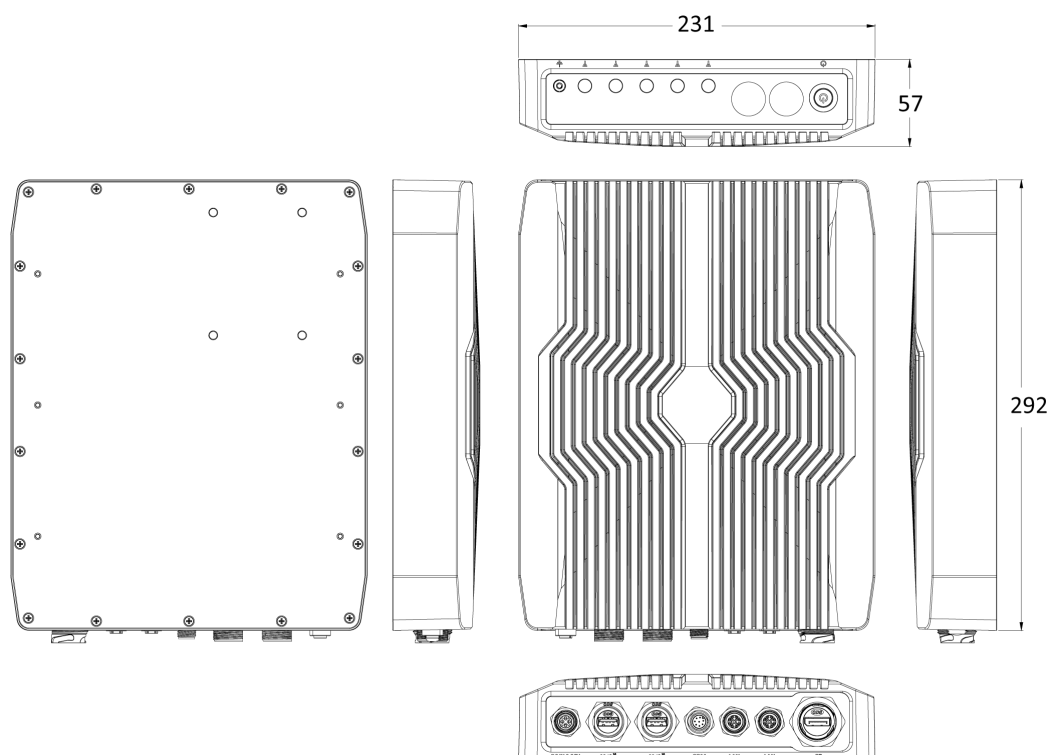


### Optional Configurations for Additional Features

| Model             | HDMI                                           | 2 PoE                               | AI Hailo / 5G                                  | IGN                                 |
|-------------------|------------------------------------------------|-------------------------------------|------------------------------------------------|-------------------------------------|
| WCO-3000-EHL      | <input checked="" type="checkbox"/>            | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> Select One | <input checked="" type="checkbox"/> |
| WCO-3000-EHL-110V | <input checked="" type="checkbox"/> Select One |                                     |                                                |                                     |

### Dimension

Unit: mm





## WCO-3000-EHL

### 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



C&T Solution Inc.

18F, No.176, Jianyi Road, Zhonghe Dist., New Taipei City 235603, Taiwan (R.O.C.)

Toll Free: +886-2-7731-7888 Fax: +886-2-7731-7855

Email: [info@candtsolution.com](mailto:info@candtsolution.com)

<https://www.candtsolution.com>

## Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

### US

[sales@assured-systems.com](mailto:sales@assured-systems.com)

Sales: +1 347 719 4508

Support: +1 347 719 4508

1309 Coffeen Ave  
Ste 1200  
Sheridan  
WY 82801  
USA

### EMEA

[sales@assured-systems.com](mailto:sales@assured-systems.com)

Sales: +44 (0)1785 879 050

Support: +44 (0)1785 879 050

Unit A5 Douglas Park  
Stone Business Park  
Stone  
ST15 0YJ  
United Kingdom

VAT Number: 120 9546 28

Business Registration Number: 07699660