



FANLESS EMBEDDED SYSTEMS

# WCO-3400

Advanced IP65 Waterproof System with Intel® Core™ i5/i3 Processor



## FEATURES

- Intel® 7<sup>th</sup> Gen (Kaby Lake-U) Processor Core™ i5-7300U, Core™ i3-7100U
- 1x 260-pin DDR4 SODIMM. Max up to 16GB
- Single display supported by 1x VGA (waterproof connector)
- 2x LAN by M12 X-Code 8-pin
- 1x RS-232/422/485 by M12 D-Code 8-pin, 1x USB 3.0 (waterproof connector), 2x USB 2.0 by M12 D-Code 8-pin
- 1x 2.5" SATA HDD bay and 1x mSATA (shared by 1x Mini PCIe)
- 2x Full-size mini PCIe for communication or expansion modules, 2x internal SIM socket
- Full system IP65 level dustproof & waterproof
- 9 to 50VDC wide range power input
- -40°C to 70°C extended operating temperature

## SPECIFICATIONS

### System

Processor	7 <sup>th</sup> Gen Intel® Core™ i5-7300U Processor, Dual Core, 3MB Cache, up to 3.5 GHz 7 <sup>th</sup> Gen Intel® Core™ i3-7100U Processor, Dual Core, 3MB Cache, 2.4 GHz
System Chipset	SoC integrated
LAN Chipset	GbE1: Intel® I219LM [Support Wake-on-LAN and PXE] GbE2: Intel® I210-AT [Support Wake-on-LAN and PXE]
Audio Codec	Realtek ALC888S
System Memory	1x 260-Pin DDR4 1866/2133MHz SODIMM. Max. up to 16GB
BIOS	AMI 128Mbit SPI BIOS
Watchdog	Software Programmable Supports 1-255 sec. System Reset

### Display

VGA	1x VGA (Waterproof connector)
Multiple Display	Single Display

### Storage

SSD/HDD	1x Internal 2.5" SATA HDD Bay Support RAID 0, 1
mSATA	1x mSATA (shared by 1x Mini PCI Express)
SIM Socket	2x Internal SIM socket

### Expansion

Mini PCI Express	2x Full-size Mini PCIe
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### IO

COM	1x RS-232/422/485 by M12 D-Code 8-pin
USB	1x USB 3.0 (Waterproof connector) 2x USB 2.0 by M12 D-Code 8-pin
LAN	2x LAN by M12 X-Code 8-pin
Others	2x WiFi Antenna 1x Power Switch

### Operating System

Windows	Windows 10
Linux	Linux kernel 4.X

### Power

Power Mode	ATX
Power Supply Voltage	9-50VDC
Power Connector	M12 A-code 4-pin
Power Adaptor	Optional AC/DC 12V/5A, 60W Optional Waterproof Power Input Cable
Power Protection	OVP (Over Voltage Protection) OCP (Over Current Protection) Reverse Protection

### Environment

Operating Temp.	-40°C to 70°C
Storage Temp.	-40°C to 85°C
Relative Humidity	10% to 95% (non-condensing)
Vibration	With SSD: 5 Grms, 5 - 500 Hz, 0.5 hr/axis With HDD: 1 Grms, 5 - 500 Hz, 0.5 hr/axis
Shock	With SSD: 50G, half sine, 11ms
Standards / Certification	IP65, CE, FCC Class A

### Physical

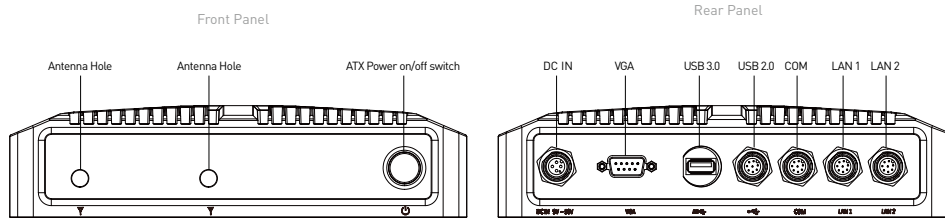
Construction	Extruded Aluminum with Heavy Duty Metal
Dimension	231 (W) x 292 (D) x 56.5 (H) mm
Weight	4.18KG
Mounting	Wall Mounting

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



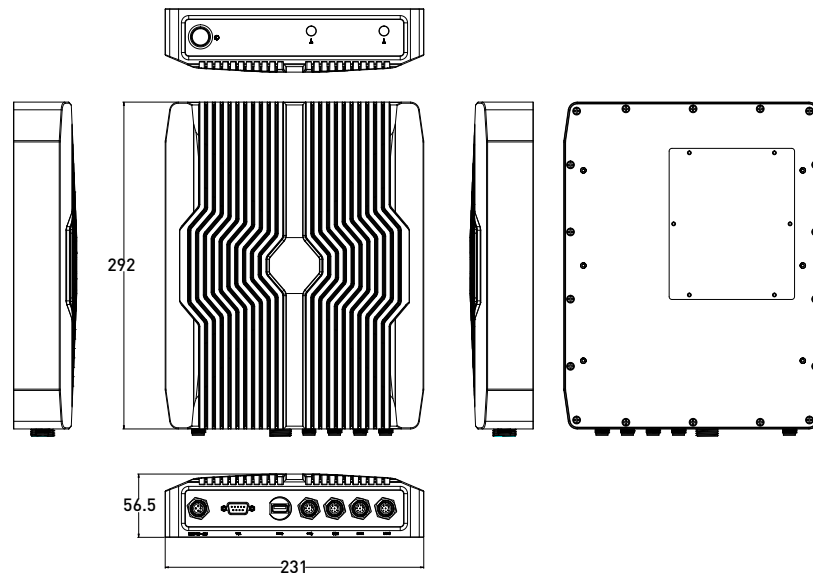
# WCO-3400

## EXTERNAL I/O MECHANICAL LAYOUT



## DIMENSION

Unit: mm



## ORDERING INFORMATION

MODEL NO.	DESCRIPTION
1-E09A06008	Adapter AC/DC 12V 5A 60W with 3pin Terminal Block Plug 5.0mm Pitch
1-TXX00003	Waterproof Power Input Cable 1.5M
1-TVGA00003	Waterproof VGA Cable 1.5M
1-TUSB00016	Waterproof USB 3.0 Cable 1.5M
1-TUSB00015	Waterproof USB 2.0 Cable 1.5M
1-TCOM00011	Waterproof COM Cable 1.5M
1-TLAN00006	Waterproof LAN Cable 1.5M

## PACKING LIST

- 1x WCO-3400 Series Embedded System
- 1x Utility DVD Driver
- 1x Wall Mount Kit
- 1x Waterproof Connector Cover Set

## AVAILABLE MODELS

MODEL NO.	DESCRIPTION
WCO-3400-7300U	Advanced IP65 Waterproof System with Intel® i5-7300U Processor
WCO-3400-7100U	Advanced IP65 Waterproof System with Intel® i3-7100U Processor

## 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.

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