



WATERPROOF COMPUTER

WCO-3000-KBL-U

Advanced IP65/67 Waterproof Computer with 7th Generation Intel® Core™ Mobile-U Processor



Features

- Intel® 7th Gen (Kabylake-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 supporting AT/ATX mode
- -40°C to 70°C extended operating temperature



Specifications

System

Processor	7th Gen Intel® Core™ i5-7300U Processor, Dual Core, 3MB Cache, up to 3.5 GHz 7th 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 8GB DDR4 1866/2133MHz SODIMM (IP-67 Model)
BIOS	AMI 128Mbit SPI BIOS
Watchdog	Software Programmable Supports 1~255 Sec. System Reset

Display

Multiple Display	Single Display
VGA	1x VGA

Storage

mSATA	1x mSATA shared by 1x Mini PCIe (IP65 Model)
SSD/HDD	1x Internal 2.5" SATA HDD Bay (IP65 Model) 1 x 256GB 2.5" SATA SSD (IP67 Model)

Expansion

SIM Socket	2x Internal SIM socket
Mini PCIe	2x Full-size Mini PCIe

I/O

COM	1x RS-232/422/485 by M12 D-Code 8-pin
LAN	2x LAN by M12 X-Code 8-pin
USB	1x USB 3.0 (Waterproof connector) 2x USB 2.0 by M12 D-Code 6-pin
Others	2x WiFi Antenna 1x Power Switch

Operating System

Windows	Windows 10
Linux	Linux kernel 4.X

Power

Power Adapter	Optional AC/DC 12V/5A, 60W Optional waterproof power input cable
Power Mode	ATX
Power Supply Voltage	9~50VDC
Power Connector	M12 A-code 4-pin
Power Protection	OVP (Over Voltage Protection) OCP (Over Current Protection) Reverse Protection

Environment

Operating Temperature	-40°C to 70°C
Storage Temperature	-40°C to 85°C
Relative Humidity	10% to 95% (non-condensing)
Certification	IP65 or IP67 CE, FCC Class A
Vibration	with SSD: 5 Grms, 5 - 500 Hz, 0.5 hr/axis with HDD: 1 Grms, 5 - 500 Hz, 0.5 hr/axis
Shock	Shock with SSD: 50G, half sine, 11ms

Physical

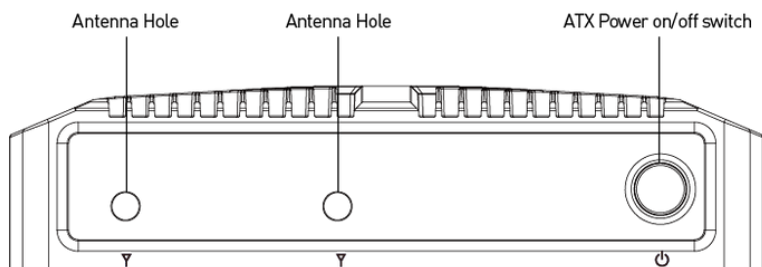
Dimensions	231 (W) x 292 (D) x 56.5 (H) mm
Construction	Extruded Aluminum with Heavy Duty Metal

Mounting Options

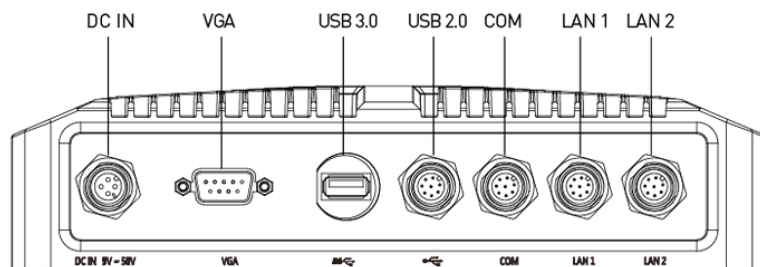
Wall Mounting

External I/O Mechanical Layout

Front Panel

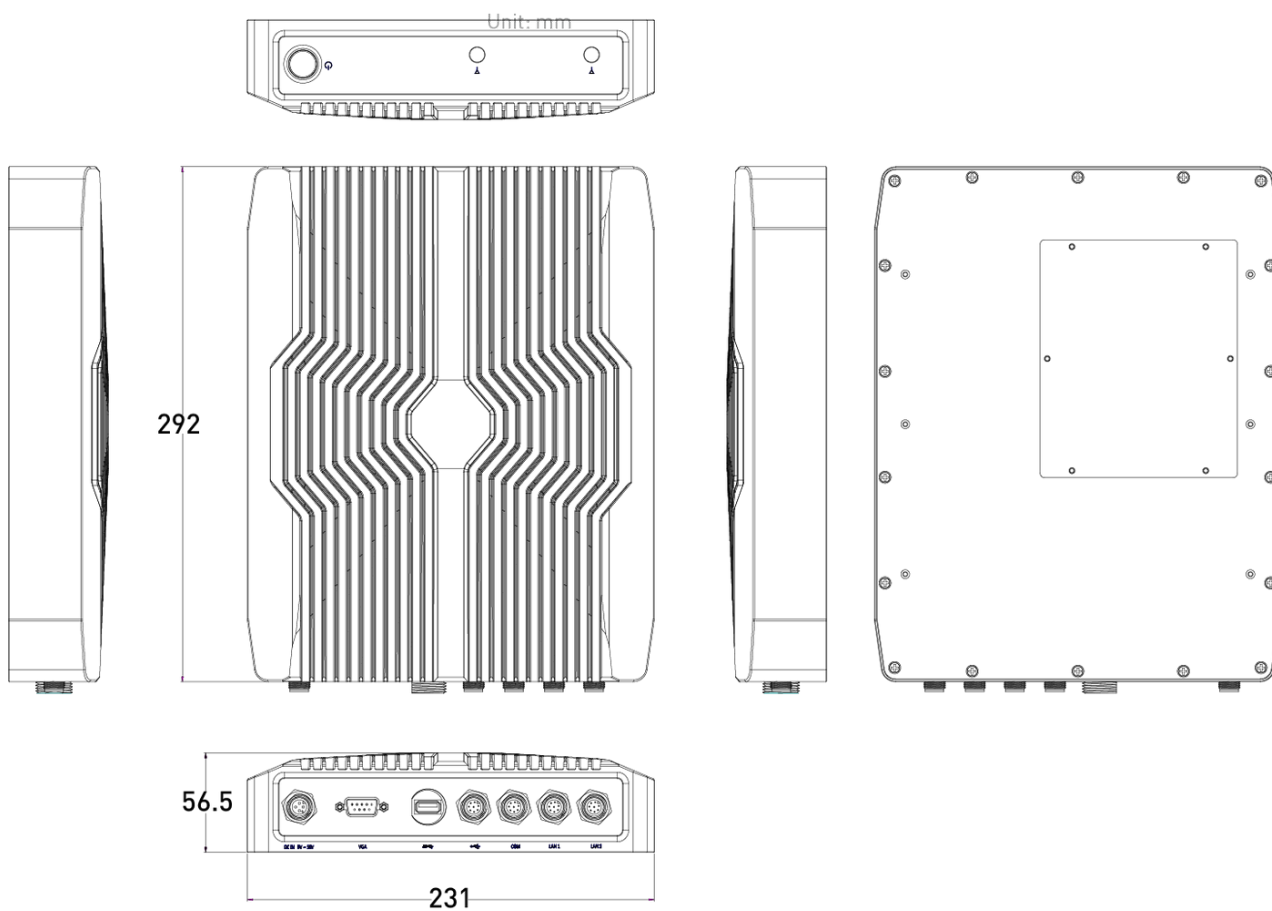


Rear Panel



Dimension

Unit: mm



Compliances and Standards

Shock	Shock with SSD: 50G, half sine, 11ms IEC60068-2-27:2008 Designed to comply with MIL-STD-810H Method 516.8 Procedure I
Vibration	with SSD: 5 Grms, 5 - 500 Hz, 0.5 hr/axis with HDD: 1 Grms, 5 - 500 Hz, 0.5 hr/axis IEC60068-2-64:2008 Designed to comply with MIL-STD-810H Method 514.8 Procedure I
Operating Temperature	-40°C to 70°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

Available Models

Model No.	Description
WCO-3000-KBL-7300U-P	Advanced IP65 Waterproof Computer with 7th Generation Intel® Core™ i5-7300U Mobile-U Processor, w/ Power Adapter
WCO-3000-KBL-7100U-P	Advanced IP65 Waterproof Computer with 7th Generation Intel® Core™ i3-7100U Mobile-U Processor, w/ Power Adapter
WCO-3000-KBL-7300U-IP67-P	Advanced IP67 Waterproof Computer with 7th Generation Intel® Core™ i5-7300U Mobile-U Processor, w/ Power Adapter
WCO-3000-KBL-7100U-IP67-P	Advanced IP67 Waterproof Computer with 7th Generation Intel® Core™ i3-7100U Mobile-U Processor, w/ Power Adapter

Optional Accessories

Model No.	Description
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-TPCD00002	Power Cord, European Type, 1.8M
1-TPCD00001	Power Cord, 3-pin UK Type, 1.8M

Packing List

1x WCO-3000-KBL-U
 1x Utility DVD Driver
 1x Wall Mount Kit
 1x Waterproof Connector Cover Set

US Exports And Tariff Codes

ECCN	5A992.c
HTS	8471.50.0150
ScheduleB	84.71

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