

## Box PC

### FEATURES

- Intel® Core™ Processor i5-5350U, up to 2.9GHz / i3-5010U, 2.1GHz or Celeron® 3765U, 1.9GHz
- 1x 204-pin DDR3L SODIMM. Max up to 8GB
- Triple independent display supported by 1x DVI-I and 1x DisplayPort
- 2x Intel® GbE supporting Wake-on-LAN and PXE
- 4x Intel® GbE with PoE function
- 2x 2.5" SATA HDD bay and 2x mSATA supporting RAID 0, 1, 5, 10
- 2x Full-size mini PCIe for communication or expansion modules,
- 2x SIM socket
- 1x PCIe x4, 1x Universal Bracket (For mini PCIe application)
- 4x RS-232/422/485, 2x USB 3.0, 2x USB 2.0
- 4x DI + 4x DO with Isolation
- 9 to 48VDC wide range power input supporting AT/ATX mode
- -40°C to 70°C extended operating temperature
- Power Ignition Management



### SPECIFICATIONS

#### SYSTEM

Processor	- 5 <sup>th</sup> Gen Intel® Core™ i5-5350U Processor, Dual Core, 3MB Cache, up to 2.9 GHz - 5 <sup>th</sup> Gen Intel® Core™ i3-5010U Processor, Dual Core, 3MB Cache, 2.1 GHz - 5 <sup>th</sup> Gen Intel® Celeron® Processor 3765U, Dual Core, 2MB Cache, 1.9 GHz
System Chipset	SoC integrated
LAN Chipset	GbE1: Intel® I210-AT (Support Wake-on-LAN and PXE) GbE2: Intel® I218-LM (Support Wake-on-LAN and PXE) GbE3~GbE6: Intel® I210-AT
Audio Codec	Realtek ALC888S
System Memory	1x 204-Pin DDR3L 1333/1600MHz SODIMM. Max. up to 8GB
BIOS	AMI 128Mbit SPI BIOS
Watchdog	Software Programmable Supports 1~255 sec. System Reset

#### DISPLAY

VGA	Yes (by optional split cable)
DVI	1x DVI-I
DisplayPort	1x DisplayPort
Multiple Display	Triple Display

#### STORAGE

SSD/HDD	1x Internal 2.5" SATA HDD Bay 1x Removable 2.5" SATA HDD Bay Support RAID 0, 1, 5, 10
mSATA	2x mSATA (shared by 2x Mini PCIe)
SIM Socket	2x External SIM socket

#### EXPANSION

Mini PCI Expansion	2x Full-size Mini PCIe
PCI Express	1x PCIe x4

#### I/O

COM	4x RS-232/422/485
USB	2x USB 3.0, 2x USB 2.0
LAN	2x RJ45

PoE	4x 25.5W_RJ45 (module)
Audio	1x Mic-in, 1x Speaker-out
DIO	4 in / 4 out (Isolated)
Universal I/O Bracket	1x Universal I/O Bracket (By mini PCIe interface)
Others	3x WiFi Antenna Holes 1x Power Switch, 1x AT/ATX Switch, 1x Remote Power On/Off

#### OPERATING SYSTEM

Windows	Windows 10, Windows 8.1, WES8.1, Windows 7, WES7
Linux	Linux kernel 3.X

#### POWER

Power Mode	AT, ATX
Power Supply Voltage	9~48VDC
Power Ignition Sensing	Power Ignition Management
Power Connector	3-pin Terminal Block
Power Adaptor	Optional AC/DC 24V/9.2A, 220W
Power Protection	OVP (Over Voltage Protection) OCP (Over Current Protection) Reverse Protection

#### ENVIRONMENT

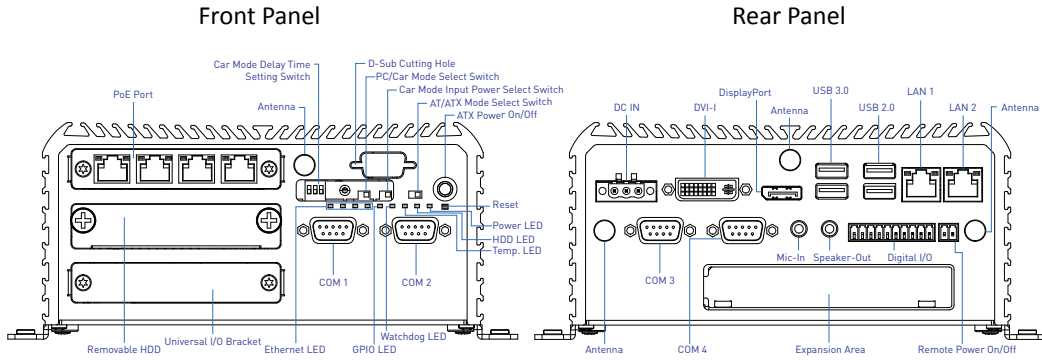
Operating Temp.	-40°C to 70°C
Storage Temp.	-40°C to 85°C
Relative Humidity	10% to 95% (non-condensing)
Vibration	With SSD: 5 Grms, 5 - 500 Hz, 0.5 hr/axis With HDD: 1 Grms, 5 - 500 Hz, 0.5 hr/axis
Shock	With SSD: 50G, half sine, 11ms
Standards / Certification	CE, FCC Class A, E-Mark, EMC Conformity with EN50155 & EN50121-3-2

#### PHYSICAL

Construction	Extruded Aluminum with Heavy Duty Metal
Dimension	185 (W) x 197 (D) x 85 (H) mm
Weight	3.61 kg
Mounting	Wall Mounting

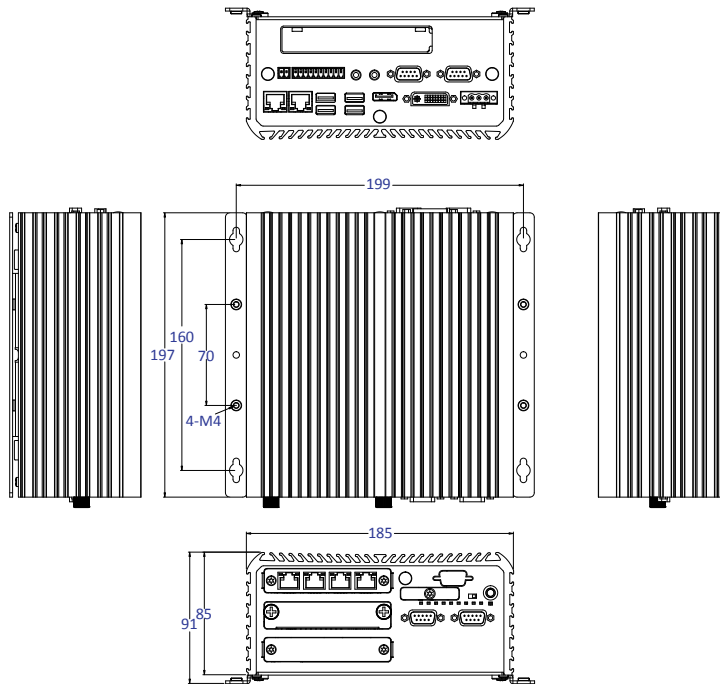
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### EXTERNAL I/O MECHANICAL LAYOUT



### DIMENSION

Unit: mm



### AVAILABLE MODELS

MODEL NO.	DESCRIPTION
ACO-3011E-4P-5350U	Vehicle applied fanless embedded system with Intel® i5-5350U processor, 2x LAN, 4x PoE, 1x PCIe x4 expansion
ACO-3011E-4P-5010U	Vehicle applied fanless embedded system with Intel® i3-5010U processor, 2x LAN, 4x PoE, 1x PCIe x4 expansion
ACO-3011E-4P-3765U	Vehicle applied fanless embedded system with Intel® Celeron® 3765U processor, 2x LAN, 4x PoE, 1x PCIe x4 expansion

### OPTIONAL ACCESSORIES

MODEL NO.	DESCRIPTION
1-E09A22102	Adapter AC/DC 24V 9.2A 220W with 3pin Terminal Block Plug 5.0mm Pitch
SFICBL022	Power Cord, 3-pin US Type, 180cm
1-TPCD00002	Power Cord, European Type
1-TPCD00001	Power Cord, 3-pin UK Type, 180cm

### PACKING LIST

- 1x ACO-3000 Series Applied Fanless System
- 1x Utility DVD Driver
- 1x Wall Mount Kit
- 1x Accessory Kit