

# ACO-6010-16L series

Surveillance Applied System with LGA 1151 for Intel® 6<sup>th</sup>/7<sup>th</sup> Gen Processor and Q170 PCH, 18x LAN



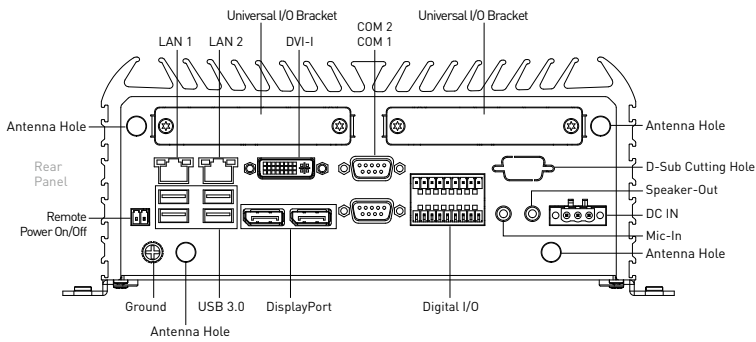
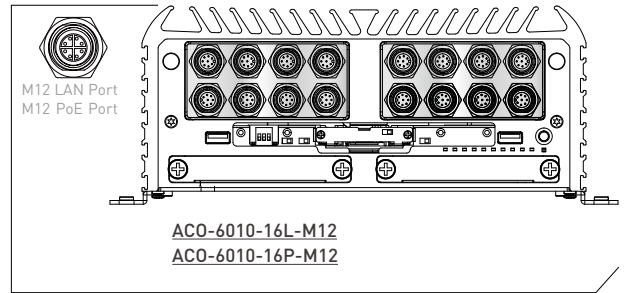
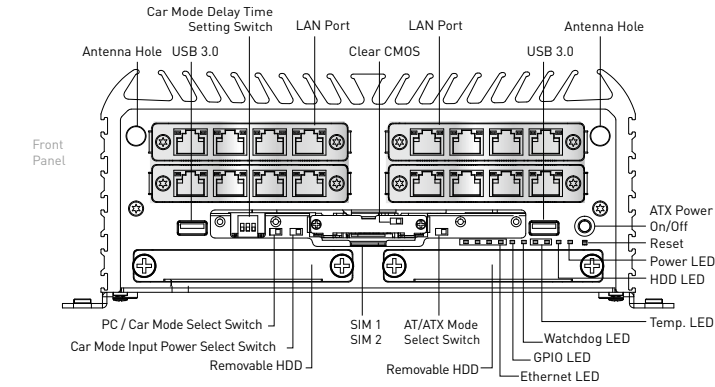
## FEATURES

- LGA 1151 socket for 6<sup>th</sup>/7<sup>th</sup> Gen. Intel® Core™ i7/i5/i3 or Pentium® / Celeron® Desktop Processor
- Intel® Q170 chipset
- 2x 260-pin DDR4 SODIMM. Max up to 32GB
- Triple independent display supported by 1x DVI-I and 2x DisplayPort
- 2x Intel® GbE supporting Wake-on-LAN and PXE
- 16x Intel® GbE (ACO-6010-16L Only)
- 16x Intel® GbE with M12 connector (ACO-6010-16L-M12 Only)
- 16x Intel® GbE with PoE function (ACO-6010-16P Only)
- 16x Intel® GbE with M12 PoE function (ACO-6010-16P-M12 Only)
- 4x 2.5" SATA HDD bay and 2x mSATA supporting RAID 0, 1, 5, 10
- 3x full-size mini PCIe for communication or expansion modules, 3x SIM socket
- 2x universal bracket (for mini PCIe application)
- 5x RS-232/422/485 (w/ 3x internal), 6x USB 3.0, 2x USB 2.0 (internal), TPM 2.0
- 8x DI + 8x DO with isolation
- 9 to 48VDC wide range power input supporting AT/ATX mode
- -25°C to 70°C extended operating temperature
- Power ignition management

## SPECIFICATIONS

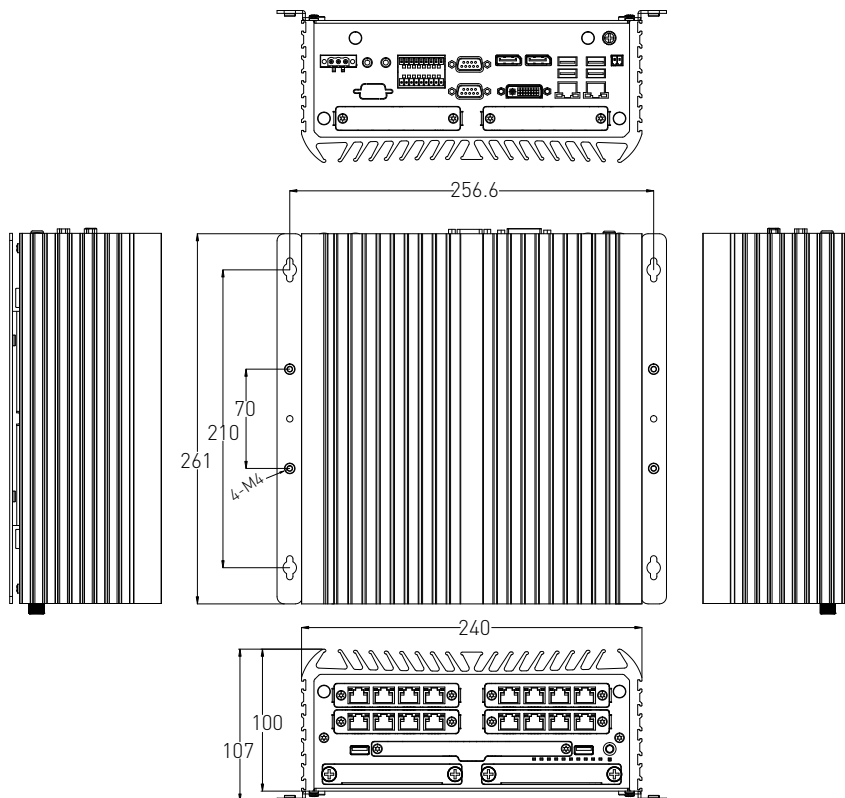
System		I/O	
Processor	Support 6 <sup>th</sup> & 7 <sup>th</sup> Gen Intel® Core™ i7 / i5 / i3 / Pentium® / Celeron® Desktop Processor (LGA 1151)	COM	2x RS-232/422/485, 3x RS-232/422/485 (internal)
	<ul style="list-style-type: none"> <li>- 7<sup>th</sup> Gen Intel® Core™ i7-7700T, Quad Core, 8MB cache, up to 3.8 GHz</li> <li>- 7<sup>th</sup> Gen Intel® Core™ i5-7500T, Quad Core, 6MB cache, up to 3.3 GHz</li> <li>- 7<sup>th</sup> Gen Intel® Core™ i3-7101TE, Dual Core, 3MB Cache, 3.4 GHz</li> <li>- 6<sup>th</sup> Gen Intel® Core™ i7-6700TE, Quad Core, 8MB cache, up to 3.4 GHz</li> <li>- 6<sup>th</sup> Gen Intel® Core™ i5-6500TE, Quad Core, 6MB Cache, up to 3.3 GHz</li> <li>- 6<sup>th</sup> Gen Intel® Core™ i3-6100TE, Dual Core, 4MB Cache, 2.7 GHz</li> <li>- Intel® Pentium® G4400TE, Dual Core, 3MB Cache, 2.4 GHz</li> <li>- Intel® Celeron® G3900TE, Dual Core, 2MB Cache, 2.3 GHz</li> </ul>	USB	6x USB 3.0, 2x USB 2.0 (internal)
System Chipset	Intel® Q170 Express Chipset	LAN	2x RJ45, 16x RJ45 (module)
LAN Chipset	GbE1: Intel® I210-AT (Support Wake-on-LAN and PXE) GbE2: Intel® I219LM (Support Wake-on-LAN and PXE) GbE3-GbE18: Intel® I350-AM4 (Optional)	Audio	1x Mic-in, 1x Speaker-out
Audio Codec	Realtek ALC888S	DIO	8 in / 8 out (Isolated)
System Memory	2x 260-Pin DDR4 1866/2133MHz SODIMM. Max. up to 32GB	Universal I/O Bracket	2x Universal I/O Bracket (By mini PCIe interface)
BIOS	AMI 128Mbit SPI BIOS	Others	6x WiFi Antenna Holes 1x Power Switch, 1x AT/ATX Switch, 1x Remote Power On/Off
Watchdog	Software Programmable Supports 1-255 sec. System Reset	Operating System	
TPM	TPM 2.0	Windows	6 <sup>th</sup> Gen CPU: Windows 10, Windows 7, WES7 7 <sup>th</sup> Gen CPU: Windows 10
Display		Linux	Linux kernel 4.X
VGA	Yes (by optional split cable)	Power	
DVI	1x DVI-I	Power Mode	AT, ATX
DisplayPort	2x DisplayPort	Power Supply Voltage	9~48VDC
Multiple Display	Triple Display	Power Ignition	Power Ignition Management
Storage		Sensing	
SSD/HDD	2x Internal 2.5" SATA HDD Bay 2x Removable 2.5" SATA HDD Bay Support RAID 0, 1, 5, 10	Power Connector	3-pin Terminal Block
mSATA	2x mSATA (Shared by 2x Mini PCIe)	Power Adaptor	Optional AC/DC 24V/5A, 120W Optional AC/DC 24V/9.2A, 220W
SIM Socket	2x External SIM socket 1x Internal SIM socket	Power Protection	OVP (Over Voltage Protection) OCP (Over Current Protection) Reverse Protection
Expansion		Environment	
Mini PCI Express	3x Full-size Mini PCIe	Operating Temp.	-25°C to 70°C
4-Port GbE (Optional)	Four 4-port GbE module with Intel® I350-AM4 Chipset RJ-45 or M12 connector with PoE option	Storage Temp.	-30°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	240 (W) x 261 (D) x 100 (H) mm
		Weight	5.34 ~ 6.82 kg
		Mounting	Wall Mounting

## EXTERNAL I/O MECHANICAL LAYOUT



## DIMENSION

Unit: mm



## ORDERING INFORMATION

MODEL NO.	DESCRIPTION
1-E09A12002	Adapter AC/DC 24V 5A 120W with 3pin Terminal Block Plug 5.0mm Pitch
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-6000 Series Embedded System
- 1x Utility DVD Driver
- 1x Wall Mount Kit
- 1x Accessory Kit
- 1x DVI to VGA Adapter

## AVAILABLE MODELS

MODEL NO.	DESCRIPTION
ACO-6010-16L	Surveillance Applied Fanless System with LGA 1151 for Intel® 6 <sup>th</sup> /7 <sup>th</sup> Gen Processor and Q170 PCH, 18x LAN
ACO-6010-16L-M12	Surveillance Applied Fanless System with LGA 1151 for Intel® 6 <sup>th</sup> /7 <sup>th</sup> Gen Processor and Q170 PCH, 2x LAN, 16x M12 LAN
ACO-6010-16P	Surveillance Applied Fanless System with LGA 1151 for Intel® 6 <sup>th</sup> /7 <sup>th</sup> Gen Processor and Q170 PCH, 2x LAN, 16x PoE
ACO-6010-16P-M12	Surveillance Applied Fanless System with LGA 1151 for Intel® 6 <sup>th</sup> /7 <sup>th</sup> Gen Processor and Q170 PCH, 2x LAN, 16x M12 PoE