

IPC-220 / 240

Compact Industrial Computer System with 6th/7th Gen Intel® Core™ i CPU Socket (LGA 1151)

NEW



Features

- Intel® 6th/7th Gen Core™ i CPU socket-type (LGA1151) with Intel® Q170/H110 chipset
- 3 x independent displays (third display output (DP) via optional cable)
- 2 x GigaLan and 6 x USB3.0 (Q170)/ 4 x USB3.0 (H110)
- 2 x RS-232/422/485 and 2 x RS232 serial ports
- 2 x 2.5" HDD/SSD, and 1 x mSATA
- 19 ~ 24 V_{DC} input power range
- Support Power Out 12V/5V - 2A
- Supports Advantech i-Door
- Versatile LED for system status and alarm
- Supports Advantech SUSIAccess and embedded software APIs



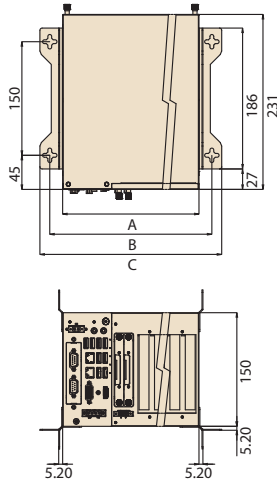
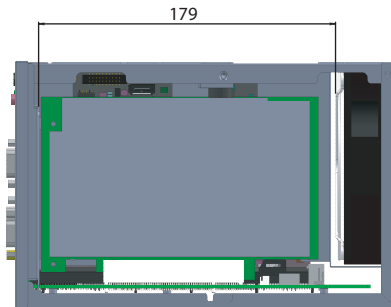
Specifications

6 th /7 th Generation Processor (TDP 35W)	CPU	i7-7700T	i7-6700TE	i5-6500TE	i3-6100TE	G4400TE
	Core Number	4	4	4	2	2
	Base Frequency	2.9 GHz	2.4 GHz	2.3 GHz	2.7 GHz	2.9 GHz
	Max Turbo Frequency	3.8 GHz	3.4 GHz	3.3 GHz		
	L3 Cache	8MB	8 MB	6 MB	4 MB	3 MB
	Temperature	0 ~ 45 °C				
	Chipset	Q170/H110				
6 th /7 th Generation Processor (TDP 65W)	BIOS	AMI 128Mb SPI Flash				
	CPU	i7-7700	i5-7500	i3-7101E	i5-6500	i3-6100
	Core Number	4	4	2	4	2
	Base Frequency	3.6GHz	3.4 GHz	3.9 GHz	3.2 GHz	3.7 GHz
	Max Turbo Frequency	4.2GHz	4.0GHz		3.6GHz	
	L3 Cache	8MB	6 MB	3 MB	6 MB	4 MB
	Temperature	0 ~ 45 °C				
Memory	Chipset	Q170/H110				
	BIOS	AMI 128Mb SPI Flash				
	Technology	Dual-channel DDR4 2133/2400 MHz (without ECC)				
Display	Socket	2 x 260-pin DDR4 SODIMM (up to 16 GB per socket)				
	Maximum Capacity	32GB				
	VGA	1 x DB15, up to 2048 x 1152 maximum resolution				
Ethernet	HDMI	1 x HDMI, up to 4096 x 2160 maximum resolution @ 30Mhz				
	Multiple Display	3 x independent displays (third display output (DP) via optional cable , resolution up to 4096 x 2160) (Q170 only)				
	Controller	Q170 LAN1: Intel® I219LM, LAN2: Intel® i210AT H110 LAN1: Intel® I219V, LAN2: Intel® i210AT				
Storage	Interface	2 x RJ45				
	HDD	2 x 2.5" HDD/SSD (Max 9.5mm Height)				
	mSATA/MiniPCle	Q170 : 1x MiniPCle or 1x mSATA H110 : 1x mSATA				
I/O	RAID	0/1/5/10 (Q170 only)				
	USB	Q170: 6 x USB 3.0, 2 x USB 2.0, 2 x Internal USB 2.0 H110: 4 x USB 3.0, 4 x USB 2.0, 2 x Internal USB 2.0				
	Serial Port	2 x RS-232/422/485 support auto flow control				
Expansion	Audio	2 (1 x line out and 1 x mic in)				
	I/O Module	Support Advantech i-Door				
	Add-On-Card Module		PClex16	PClex4	PClex1	PCI
LED and Switch	Button	Power				
	LED	1 x CPU FAN Alarm, 1 x System Temp. Alarm, 1 x Watch Dog, 1 x CPU Temp. Alarm, 1 x Power, 1 x HDD Disk				
	Type	ATX/AT				
Power	Input Voltage	19 ~ 24 V _{DC} , 8A ~ 6.5A				
	Remote Power Switch	Support Remote Power Switch				
	Power consumption	150W (Without Add on card)-220W (With Add on card)				
Watchdog Timer	Output	System reset				
	Interval	Programmable 1 ~ 255 sec/min				
	Operating					Non-operating
Environment	Humidity	95% @ 40 °C (non-condensing)				-40 ~ 85 °C
	Vibration	With SSD: 3 Grms @ 5 ~ 500 Hz, random, 1 hr/axis With 2.5" HDD: 0.5Grms @ 5 ~ 500 Hz, random, 1 hr/axis				2G
	Shock	With SSD: 10G, IEC-68-2-27, half-sine wave, 11 ms duration				
Mechanical	Dimensions (W x H x D)	IPC-240: 180 x 230 x 150 mm (7.08" x 9.05" x 5.9") IPC-220: 140 x 230 x 150 mm (5.51" x 9.05" x 5.9")				
	Weight	IPC-220: 3.0kg IPC-240: 3.2Kg				
	Installation	Desktop/wall mount				
Certifications	EMC	CE/FCC Class A, CCC, BSMI				
	Safety	UL, CCC, BSMI				

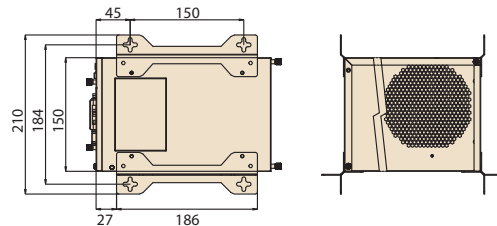
Dimensions

Unit: mm

Add on card Max. length



Dimension (mm)	IPC-220-00A1	IPC-240-00A1	IPC-240-01A1
A	140	180	180
B	174	214	214
C	200	240	240



Front View



Ordering Information

Part Number	Mother Board	Chipset	PClex16	PClex4	PClex1	PCI	HDD/SSD	Power
IPC-220-00A1	Q170 - PCE-2129-00A1 H110 - PCE-2029-00A1	Q170/H110	1	1	0	0	2 x 2.5"	19-24V _{DC}
IPC-240-00A1	Q170 - PCE-2129-00A1	Q170	1	2	1	0	2 x 2.5"	19-24V _{DC}
IPC-240-01A1	Q170 - PCE-2129-00A1 H110 - PCE-2029-00A1	Q170/H110	1	1	0	2	2 x 2.5"	19-24V _{DC}

Part Number	Chipset	USB3.0	USB2.0 (External/Internal)	GbE	mSATA	COM
PCE-2029-00A1	H110	4	4/2	2	1	2
PCE-2129-00A1	Q170	6	2/2	2	1	2

Packing List

Item	Description
IPC-220/240	Compact Industrial Computer Chassis
PCE-2029/2129	6th/7th Gen Intel® Core™ i CPU (LGA 1151) CPU board
1960070543T005	Mounting Bracket
2001022000	User Manual (Chassis)
2041202900	Startup Manual (Mother Board)
1652003234	4-pin Phoenix power connector
1652002205	Remote SW 2 pin Phoenix connector
1652007894-01	DC output connector

Embedded OS

Part Number	Description
TBD	

Optional Accessories

Part Number	Description
96PSA-A220W24P4-1	Adaptor A/D, 100-240V, 220W, 24V
96PSA-A150W19P4-1	Adaptor A/D, 100-240V, 150W, 24V
1960053207N001	CPU Cooler LGA1155 S-95W 92.9x92.9x46 4400RPM
1700008762	COM3/4 (RS-232) Cable+PCIe Bracket
1702002600	Power cord (USA) UL/CSA, 3-pin, 10A, 125V, 1.83 M, 180 D
1700022940-01	Power cord PSE, 3-pin, 7A, 125V, 3 m, DAC-ST01
1702002605	Power cord (EU) 2-pin, 10/16A, 220V, 1.83 M, 90 D
1700024858-01	POE Power Cable 2*2P-4.2/2*2P-4.2 15cm