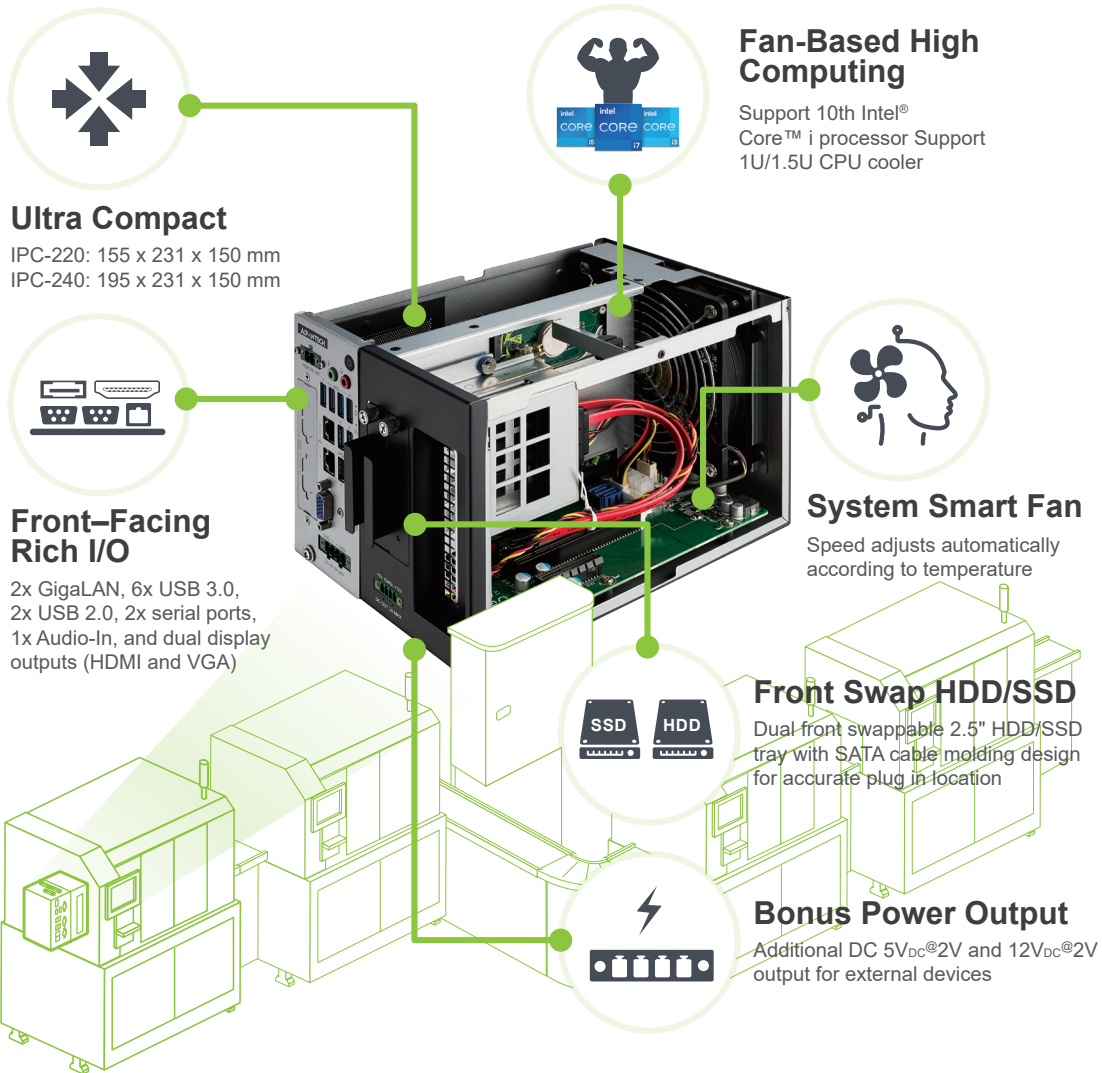


Modular IPCs

Ultra Compact IPC Introduction

Advantech industrial edge computer for intelligent manufacturing

The current industrial automation market is trending towards increasingly compact form factors and intelligent designs that offer space savings and boost efficiency. Advantech's latest IPC-200 series is an ultra-compact industrial edge computer that features a wide operating temperature range, wide input power tolerance, and front-facing I/O for convenient access and easy deployment. Despite its compact size, the IPC-220/240/242 offers high expandability to support machine vision and motion control, making it ideal for industrial automation and equipment manufacturing applications. Moreover, with Advantech's rapid and localized configuration services, the IPC-220/240/242 reduces the time-to-market for machine builders and accelerates the realization of Industry 4.0.



Ultra Compact and Powerful

Industrial Edge Computer for Intelligent Manufacturing

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Modular IPCs Selection Guide

Ultra Compact IPC



Model name		IPC-220	IPC-240	IPC-242
Form Factor		Compact	Compact	Compact
Processor System	Chipset	Q470E/H420E	Q470E/H420E	Q470E/H420E
	CPU	Intel® 10th Gen Core™ i (LGA1200)	Intel® 10th Gen Core™ i (LGA1200)	Intel® 10th Gen Core™ i (LGA1200)
	Core	Max. 4	Max. 4	Max. 4
	Cache	Max. 20 MB	Max. 20 MB	Max. 20 MB
	Memory	Dual DDR4 2666/2933 MHz Max. 64 GB	Dual DDR4 2666/2933 MHz Max. 64 GB	DDR4 2666/2933 MHz (non-ECC) Max. 64 GB
Graphic	Graphics Controller	Intel® HD Graphics	Intel® HD Graphics	Intel® HD Graphics
	VRAM	Shared system memory is subject to OS	Shared system memory is subject to OS	Shared system memory is subject to OS
Expansion	PCIe x16	1	1	1
	PCIe x8	-	-	-
	PCIe x4	1	IPC-240-20A1: 3 IPC-240-21A1: 1	IPC-242-20A1:3 IPC-242-21A1:2
	PCI	-	IPC-240-20A1: 0 IPC-240-21A1: 2	IPC-242-20A1:0 IPC-242-21A1:2
	Mini PCIe	1	1	-
Storage	Storage Bay	2 x 2.5" HDD/SSD (Max 15mm Height)		1 x 2.5" swappable HDD bay
	M.2	PCE-2032-00A1: 0 PCE-2132-00A1: 1		
	mSATA	PCE-2032-00A1: 1(SATA) PCE-2132-00A1: 1(SATA/mPCIe/USB)		
	CFast	-	-	-
	RAID	0/1/5/10 (Q470E Only)		
Ethernet	Ethernet Interface	2 x RJ45		
	Controller	Q470E LAN1: Intel® I219LM, LAN2: Intel® i210AT H420E LAN1: Intel® I219V, LAN2: Intel® i210AT		LAN 1: Intel® I219V LAN 2: Intel® I211AT
Front I/O	Display	VGA + HDMI		
	LAN	2	2	2
	USB	Q470E: 6 x USB 3.2, 2 x USB 2.0, 2 x Internal USB 2.0 H420E: 4 x USB 3.2, 4 x USB 2.0, 2 x Internal USB 2.0		
	COM	2 x RS-232/422/485 support auto flow control		
	Audio	2 (1 x line out and 1 x mic in)		-
Watchdog Timer	Output	System reset	System reset	System reset
	Interval	Programmable 1 ~ 255 sec/min	Programmable 1 ~ 255 sec/min	Programmable 1 ~ 255 s/min
Power Supply	System Power Consumption	150W (Without Add on Card)~230W (With Add on Card)		
	DC output range	5V _{DC} and 12V _{DC} , 2A MAX		
	Input Range	19 ~ 24 V _{DC} , 8A ~ 6.5A		
	Remote Power Switch	✓		
Cooling	System Fan	1 (12cm/ 82 CFM)		
	Air Filter	Yes	Yes	Yes
Physical Characteristics	Dimensions (W x H x D)	155 x 231 x 150 mm (6.1" x 9.05" x 5.9")	195 x 231 x 150 mm (7.68" x 9.05" x 5.9")	333 x 269.2 x 88 mm (13.11" x 10.55" x 3.46")
	Weight	3.1 kg	3.3 kg	4.2 kg

✓ : supported, - : not supported, △ : optional