IPC-2U480-Z390

1U Rackmount Industrial Computer | Intel 12th/13th/14th Gen i9/i7/i5/i3/G CPU

Product Features



•Compatible with ATX, Micro-ATX and Mini-ITX industrial motherboards.

•Supports 2 × 3.5-inch HDDs and 1 × 2.5-inch SSD.

•Seven half-height PCI/PCIe expansion slots.

•Standard 400 W Flex 2U power supply.

•Includes two 8025 fans for effective cooling and quiet operation.

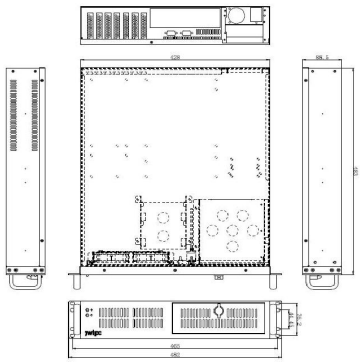
•Power and reset switches plus power and HDD LEDs are behind a lockable front door to prevent unauthorized operation.

•Industrial-grade design for harsh environments, including vibration, contamination, dust and extreme temperatures.

I/O Layout and Chassis Dimensions







Chassis: 430 × 88.5 × 483 mm (W × H × D)

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Specifications

IPC-2U480-Z390

System	Processor	Intel LGA1151; supports 6th/8th/9th Gen i3/i5/i7/i9 CPUs; TDP 95 W.
	Chipset	Intel® Z390 chipset.
	BIOS	AMI UEFI BIOS.
	Graphics	Intel CPU integrated graphics controller (varies by installed CPU).
	Memory	4 × 288-pin DDR4 UDIMM slots; up to 32 GB per DIMM, 128 GB total.
I/O Interface	USB	8 × USB 3.0; 2 × USB 2.0.
	COM	6 serial ports: COM1/2 support RS-232/422/485; COM3–6 support RS-232. Three ports require PCIe breakout.
	LED	Power LED; HDD LED.
Expansion	PCIe / PCI	7 half-height PCI/PCIe expansion slots: 5 PCIe and 2 PCI.
Display	Interface	Three display outputs: DP + HDMI + VGA; supports independent triple-display mode.
Storage	Storage Device	4 × SATA 3.0 (6 Gb/s) ports; supports SATA RAID 0/1/5/10. 1 × M.2 2242/2280 Key-M supports SATA/NVMe auto-detection.
	Drive Bay	Supports 2 × 3.5-inch HDDs and 1 × 2.5-inch SSD.
Audio	Audio Codec	Realtek ALC897.
	Audio Interface	Rear I/O: MIC-In, Speaker-Out and Line-In (optional 2-jack version); onboard front-panel audio header F_Audio.
Ethernet	LAN	2 Intel high-speed Ethernet ports: LAN1 i219V; LAN2 i210AT.
Power	Power Input	Flex power supply.
Other	OS Supports	Windows 7 / Windows 10 / WES7 / Linux, 32-bit / 64-bit.
	Watchdog Timer	255-level programmable seconds/minutes; supports timeout interrupt or system reset.
	TPM	Onboard SLB9670 (SLB9672) security chip supports TPM 2.0; design provision only, not installed by default.
	System Fan	2 × 8025 fans.
Physical Parameters	Dimensions	430 × 88.5 × 483 mm (W × H × D).
	Weight	13.8 kg.
	Mounting	Desk / Rackmount.
Operating Environment	Operating Temp.	0°C to 45°C.
	Storage Temp.	−40°C to 55°C.
	Humidity	Operating: 20%–80% RH; non-operating: 20%–93% RH (40°C).
	Shock	Operating: 1 Grms @ 5–500 Hz; non-operating: 2 Grms @ 5–500 Hz.
	Vibration	3 axes; 10 G (11 ms half-sine wave); 3 times per axis.

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Ordering Information and Accessories

IPC-2U480-Z390

Ordering Information

Model	PCH	Power	Display	SATA	LAN	USB3	USB2	COM	PCIe / PCI
IPC-2U480	Z390	400 W	3	3	2	8	2	3	7

Packing List

Accessory No.	Description
400302612200	IPC-2U480 chassis
300600000220	Internal Flex 400 W power supply, 180–240 V.
400302612300	IPC-2U480 packaging material, including power cord; Chinese standard; 1.5 m; IEC-style connector; black.

Optional Accessories

DDR4 8G	DDR4 8 GB, 2666 MHz, UDIMM	**SSD 1TB**	1 TB, 2.5-inch, SATA 6 Gb/s
DDR4 16G	DDR4 16 GB, 3200 MHz, UDIMM	**HDD 1TB**	1 TB, 64 M, SATA 6 Gb/s, 3.5-inch, 5400 rpm
DDR4 32G	DDR4 32 GB, 3200 MHz, UDIMM	**HDD 2TB**	2 TB, 256 M, SATA 6 Gb/s, 3.5-inch, 7200 rpm
SSD 256GB	256 GB, 2.5-inch, SATA 6 Gb/s	**HDD 4TB**	4 TB, 256 M, SATA III, 3.5-inch, 7200 rpm
SSD 512GB	512 GB, 2.5-inch, SATA 6 Gb/s	**HDD 10TB**	10 TB, 256 M, SATA 6 Gb/s, 3.5-inch, 7200 rpm

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