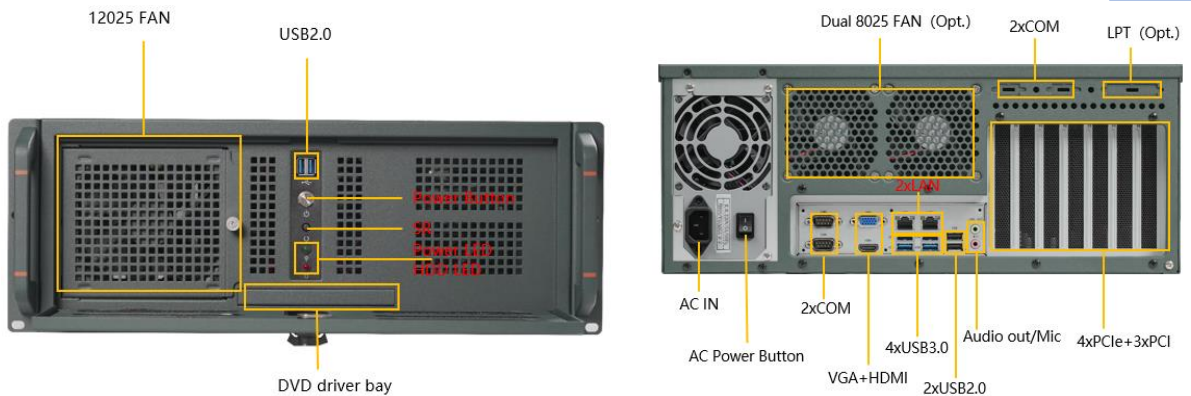**IPC-PADR Series**

Key Features
- Intel gen 10th Cometlake-S LGA1200 CPU+H420E PCH
- Dual channel 2xDDR4 2933MHz DIMM, up to 64GB
- Intel UHD Graphic, 1xVGA+1xHDMI dual independent display
- 1xI219LM Gig. Ethernet+1xI226V 2.5Gig. Ethernet
- 4xUSB3.2, 5xUSB2.0 (two front and one built-in), Audio out and Mic
- 2xRS232/422/485, 2xRS232, optional 1xLPT or 8 bit DIO
- 1xPCIeX16+3xPCI+3xPCIeX4
- 4x3.5 "SATA3.0 shock resistant and anti-vibration hard disk bay
- Standard 19" 4U rackmount chassis with high efficiency air cooling design
- Standard PS2 ATX power supply, 300/500/750W

RoHS COMPLIANT 2002/95/EC   CE   FCC   CCC

Description

PADR-S501-971 is a standard 19" 4U rackmount industrial computer with an Intel H420E chipset powered by Intel® gen 10th Comet lake-S LGA1200 series CPU. Rich functional IO, 7 PCIe/PCI expansion capabilities, excellent air cooling design, power consumption ladder ATX power supply selection, suitable for machine vision, CNC machine tools and factory production line automation and other fields.
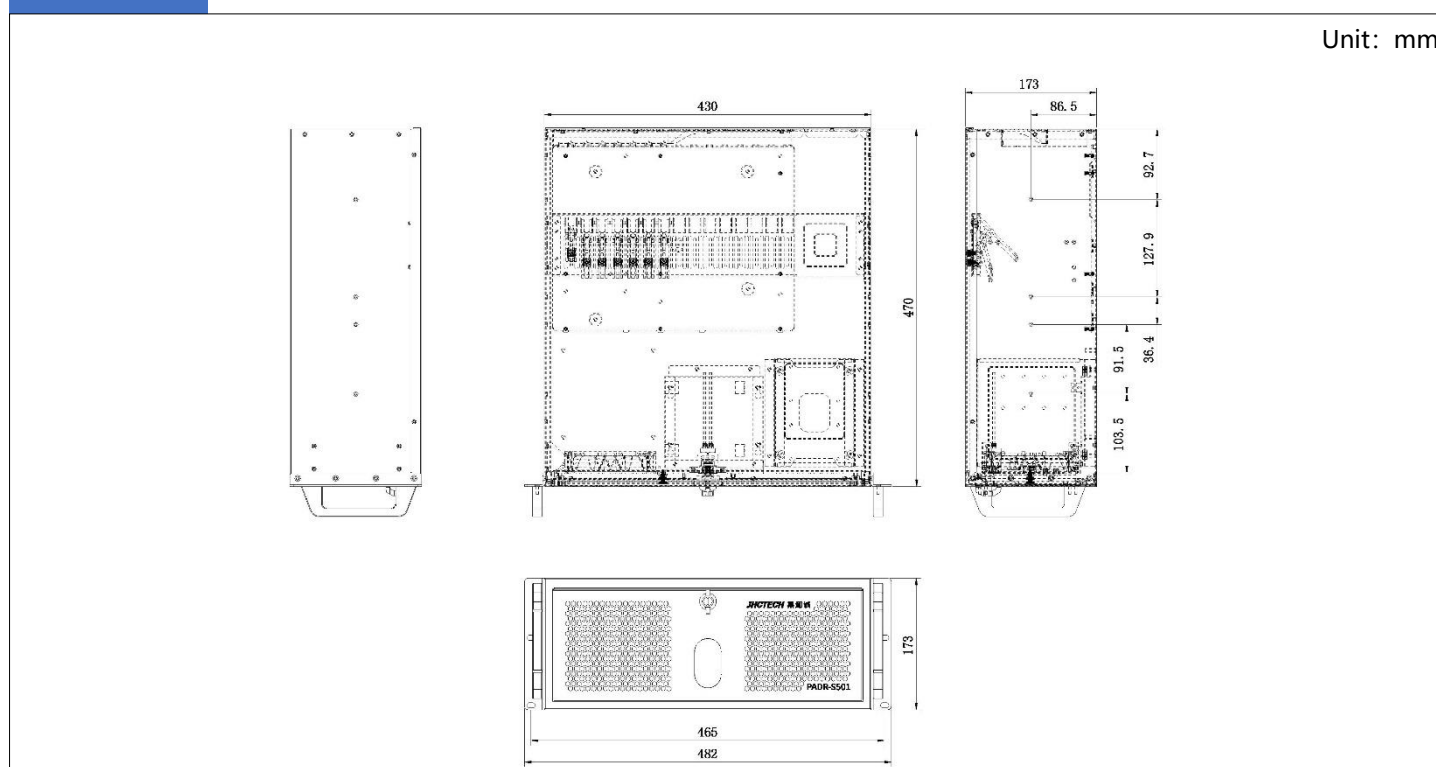
I/O View

SPEC.

CPU+PCH	Intel gen 10 Comet lake-S Core i9/i7/i5/i3/Pentium/Celeron LGA1200 CPU, up to 125W, H420E chipset
Memory	2x288-pin Non-ECC UDIMM , dual channel DDR4 2400/2666/2933MHz, up to 64GB
Expansion	1xPCIeX16 Gen3.0 slot, 3xPCIeX4 Gen3.0 slot (PCIeX1 signal，the first slot(X2 signal) can share the other 2 slots signal through BIOS settings, so it can be changed to X4 signal, at this time the other 2 slots are unavailable), 3x32-bit PCI slot
Graphics	Intel UHD Graphics, Supports DirectX 12, OpenGL 4.5 and OpenCL 2.1 HW Decode: AVC/H.264, MPEG2, VC1/WMV9, JPEG/MJPEG, HEVC/H265, VP8, VP9 HW Encode: MPEG2, AVC/H264, JPEG, HEVC/H265, VP8, VP9 HDMI max. res. 4096*2160@30Hz，VGA max. res. 1920*1200@60Hz
Audio	Realtek ALC897 controller, Support 5.1 channel
LAN	1xIntel I226V，10M/100M/1000M self-adapt，support WOL 1xIntel I219LM，10M/100M/1000M self-adapt，support WOL
Storage	4xSATA3, 6.0Gbps interface, the box is designed with 4x3.5 "and 2x2.5" 5 anti-vibration hard disk bay, 1 ultrathin DVD driver bay, can realize multi-category combined storage
Rear I/O	2xLAN(RJ45); 1xHDMI+1xVGA; 1xLine out+1xMic 2x3.5mm phone jack 4xUSB3.2 Gen1 (5Gb/s, Type A), 2xUSB2.0(Type A)，support USB Power to switch between System mode(+5V) and +5VSB mode through jumper 2xRS232/422/485 (DB9 male), 2xRS232(DB9 male), optional 1xLPT (DB25 female)
Front I/O	2xUSB2.0(Type A)
Internal I/O	8bit DIO, 1xUSB2.0(Type A), 1*LPT pin header，2*RS232 pin header, PS/2 wafer, the built-in interface can be elicited through an extension window
Switch & LED	Front with Power Button, Reset Button, Power LED, HDD LED, on board with USB Power jumper, AT/ATX jumper, Clear CMOS jumper
Power Supply	AC100-240V input, standard ATX power supply 300W, optional 500W and 750W; TDP: 184.85W (I7-10700K CPU/16G DDR4/256G SSD)
Watchdog Timer	Watchdog timeout programmable via software 1 to 255 second
Security	Support Infineon TPM2.0(Opt.)
OS Support	Windows 10, Windows 11，Linux Ubuntu

Structure and Mounting	Door with lock design, SGCC steel plate, metal mold molding; Mounted on 19" rack, optional mounting rail set
Cooling	Linear airflow design, front 12025 ball bearing fan, optional 2 rear 8025 ball bearing fan
Color	Granite grey
Dimension	(W*H*D)：430x470x173mm
Height	14.0kg
Operating Temperature	0～50℃
Storage Temperature	-40℃～70℃
Storage Humidity	10~95%@40℃, Non-condensing
Vibration	5grms/5～500Hz/random/in working (SSD); 1grms/5～500Hz/random/in working (HDD)
Shock	50g peak acceleration(11ms duration)(SSD); 20g peak acceleration(11ms duration)(HDD)
EMC/Certification	CE/FCC Class A, 3C

Dimension

Unit：mm

Ordering Info

Model No.	Introduction	Power
PADR-S501/971-300WP	Intel® H420E PCH+Comet lake-S LGA1200 CPU, 2xDDR4 UDIMM, 2xLAN, 4xUSB3.2, 5xUSB2.0(one built-in), 4xCOM,1xPCIe X16, 3xPCIeX4(X1 signal, one can be X4 signal), 3x32bit PCI,1xHDMI, 1xVGA, 1xLine out and 1xMic, 4x3.5 "SATA bay.	AC 100-240V,ATX 300W
PADR-S501/971-500		AC 100-240V,ATX 500W
PADR-S501/971-750		AC 100-240V,ATX 750W

Accessory Pack

Standard Accessories	Amount	Optional Components	Optional Components
Screw jumper package	1	LGA115X, TDP 35-65W CPU WIND-COOLI	A pair of guide rail mounting parts
Air Filter	1	LGA115X, TDP 125W CPU WIND-COOLI	8025 Dual ball bearing DC 12V fans
AC power supply cable	1	one 4pin to 2+6pin GPU power cable	DB25 female head parallel port cabel
		SATA 7pin data cable, length 420mm	DB9 male needle DIO cabel