PADR-S501-I980

Intel® 12/13/14th Gen. CPU, 2xLAN, VGA+HDMI+DVI, 3xCOM, 6xUSB3.2,3xUSB2.0, 7xPCIe/PCI, 4xSATA Bay, 4U rackmount, ATX power

JHCTECH

IoT Computer Connecting the Dots

IPC-PADR Series



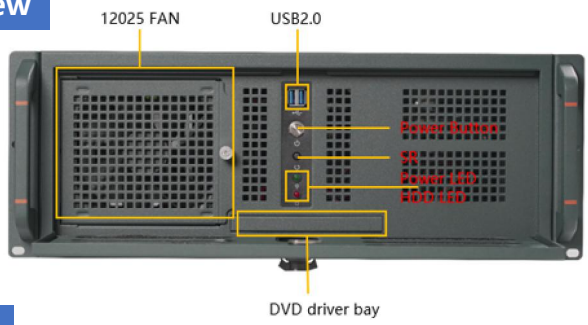
Key Features

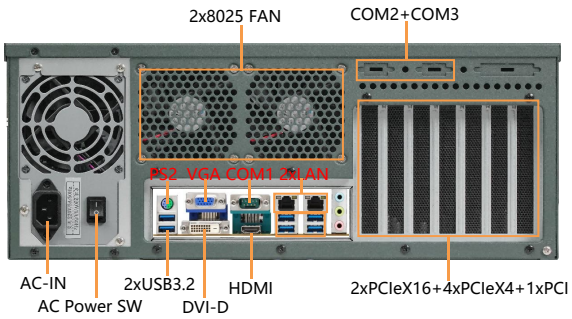
- Intel gen 12/13/14th Alderlake-S/Raptor Lake-S/
- Raptor Lake-Refresh LGA1700 CPU+H770 PCH
- Dual channel 4xDDR4 3200MHz UDIMM
- Intel UHD Graphic, 1xVGA+1xHDMI+1xDP three independent display
- 1xI219V Gig. Ethernet+1xI226V Gig. Ethernet
- 6xUSB3.2, 3xUSB2.0 , Audio out +Audio in and Mic
- 1xRS232/422/485, 2xRS232, optional 8-bit DIO
- 2xPCIeX16,1xPCI,4xPCIeX4, 1xM.2 E-Key,1xM.2 M-key
- 4x3.5 "SATA3.0 shock resistant and anti-vibration hard disk bay
- Standard 19" 4U rackmount chassis with high efficiency air cooling design
- Standard ATX power supply, 300/850/1300W

Description

PADR-S501-980-T001 is a standard 19" 4U rackmount industrial computer with an Intel H770 chipset powered by Intel® gen 12/13/14th Alder lake-S/Raptor Lake-S/Raptor Lake-Refresh LGA1700 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





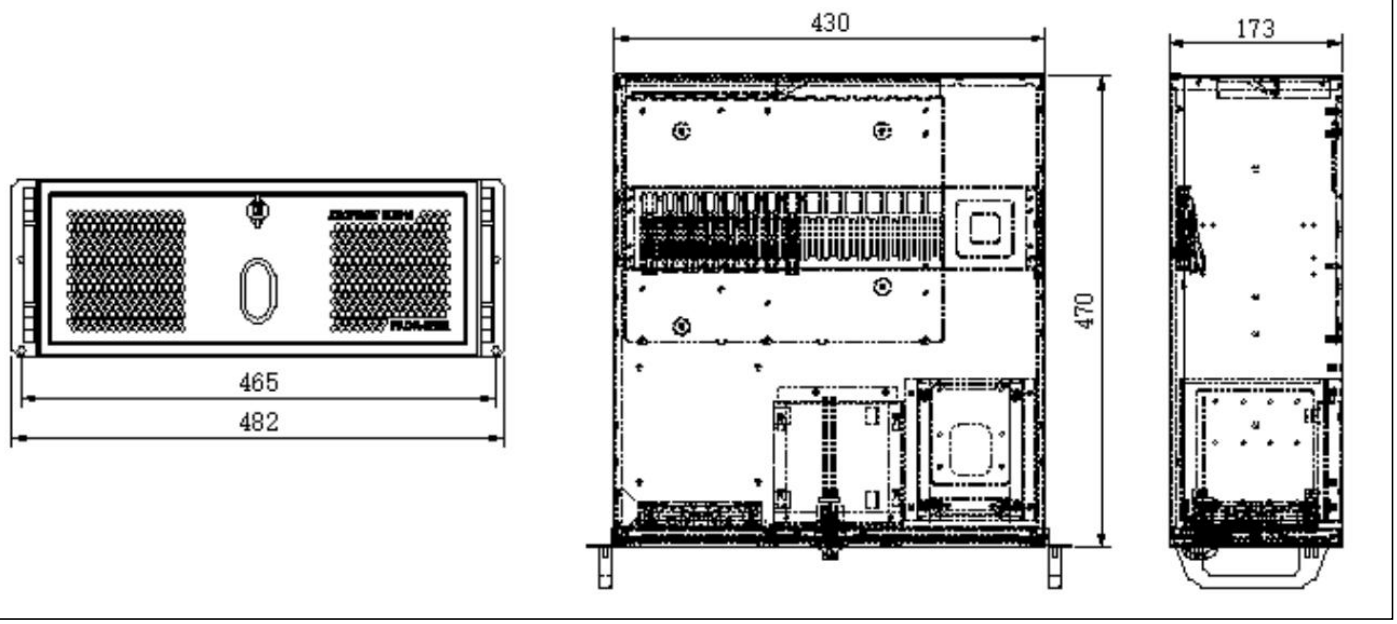
SPEC.

CPU+PCH	Intel gen 12/13/14th Alder lake-S/Raptor Lake-S/Raptor Lake-Refresh Core i9/i7/i5/i3/Pentium/Celeron LGA1700 CPU, up to 125W, H770 chipset
Memory	4x288-pin Non-ECC UDIMM , dual channel DDR4 3200MHz, up to 128GB
Expansion	2xPCIeX16 Gen5.0 slot (X8 Signal), 4xPCIeX4 Gen4.0 slot (X4 Signal), 1x33/ 66MHz PCI slot 1xM.2 2230 E-Key(PCIe+USB2.0+CNVi,support WIFI+BT Module)
Graphics	Intel Xe architecture 700 Series 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@60Hz, DVI-D max. res. 1920*1200@60Hz, VGA max. res. 1920*1200@60Hz
Audio	Realtek ALC897 controller, support 5.1 channel
LAN	1xIntel I226V, 10M/100M/1000M/2500M self-adapt, support WOL 1xIntel I219V, 10M/100M/1000M self-adapt, support WOL
Storage	1x2242/2280 M-Key (Gen4.0 PCIe X4 NVMe/SATA SSD Auto Detect) 4xSATA3, 6.0Gbps interface, support RAID0/1/10/5, the box is designed with 4x3.5 "and 2x2.5" a set of anti-vibration hard disk bay, 1 ultrathin DVD driver bay, can realize multi-category combined storage
Rear I/O	2xLAN(RJ45); 1xHDMI+1xVGA+1xDVI-D; 1xAudio in+Audio out+1xMic 3x3.5mm phone jack 6xUSB3.2 Gen1 (5Gb/s, Type A), 1xPS2(KB+MS), 1xRS232/422/485 (DB9 male), 2xRS232(DB9 male), COM2/3 VCC5/DCD+VCC12/RI select jumper
Front I/O	2xUSB2.0(Type A)
Internal I/O	8bit DIO (2*5 pin header), 2xUSB3.2 Gen1 (5Gb/s, 2*10 pin header), 3xUSB2.0(one Type A, two pin header), 2*RS232 pin header, 2*RS232/485 pin header, 1xF_AUDIO, 1xSM Bus,2xSystem FAN wafer, 1xCPU FAN wafer, 1xPower monitor wafer
Switch & LED	Front with Power Button, Reset Button, Power LED, HDD LED, AT/ATX jumper, Clear CMOS jumper Rear IO with AC power Button
Power Supply	AC100-240V input, standard ATX power supply 300W, optional 850W or 1300W; TDP: 232.3W (I7-12700K CPU/16G DDR4/256G SSD)
Watchdog Timer	Watchdog timeout programmable via software 1 to 255 second

Security	Support Infineon TPM2.0(Optional)
OS Support	Windows 10, Windows 11 and Linux
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°C~85°C
Storage Humidity	10~95%@40°C, 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-S501/980-T001-300WP	Intel® H770 PCH+Gen. 12/13/14th LGA1700 CPU, 4xDDR4 UDIMM, 2xLAN, 6xUSB3.2, 3xUSB2.0(one inside), 3xCOM, 2xPCIe X16 (X8 Signal), 4xPCIeX4 , 1x32bit PCI, 1xM.2 E-Key,1xM.2 M-Key, 1xHDMI, 1xVGA, 1xDVI-D, 1xAudio in+Audio out and 1xMic, 4x3.5 "SATA bay.	AC 100-240V,ATX 300W
PADR-S501/980-T001-850		AC 100-240V,ATX 850W
PADR-S501/980-T001-1300		AC 100-240V,ATX 1300W

Accessory Pack

Standard Accessories	Amount	Optional Components	Optional Components
Screw jumper package	1	LGA1700, TDP 65W CPU WIND-COOLI	A pair of guide rail mounting parts
Air Filter	1	LGA1700, TDP 125W CPU WIND-COOLI	8025 Dual ball bearing DC 12V fans
AC power supply cable	1	SATA 7pin data cable, length 420mm	DB9 male needle DIO cabel
		two 4pin to 2+6pin GPU power cable	