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



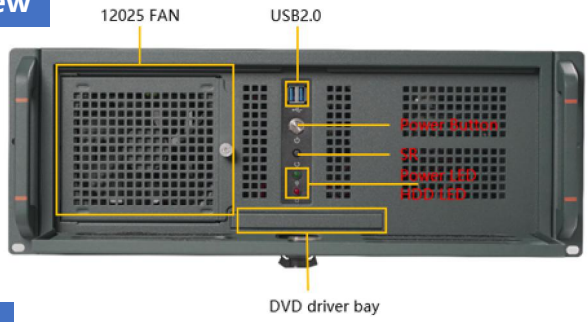
Key Features

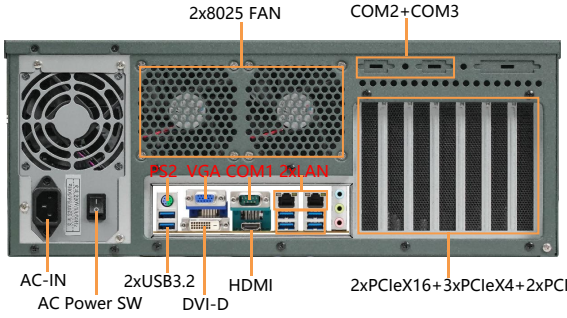
- Intel gen 12/13/14th Alderlake-S/Raptor Lake-S/
- Raptor Lake-Refresh LGA1700 CPU+H770 PCH
- Dual channel 4xDDR5 4400MHz UDIMM
- Intel UHD Graphic, 1xVGA+1xHDMI+1xDP three independent display
- 1xI219V Gig. Ethernet+1xI210AT Gig. Ethernet
- 6xUSB3.2, 3xUSB2.0 , Audio out +Audio in and Mic
- 1xRS232/422/485, 2xRS232, optional 8-bit DIO
- 2xPCIeX16,2xPCI,3xPCIeX4, 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-T002 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





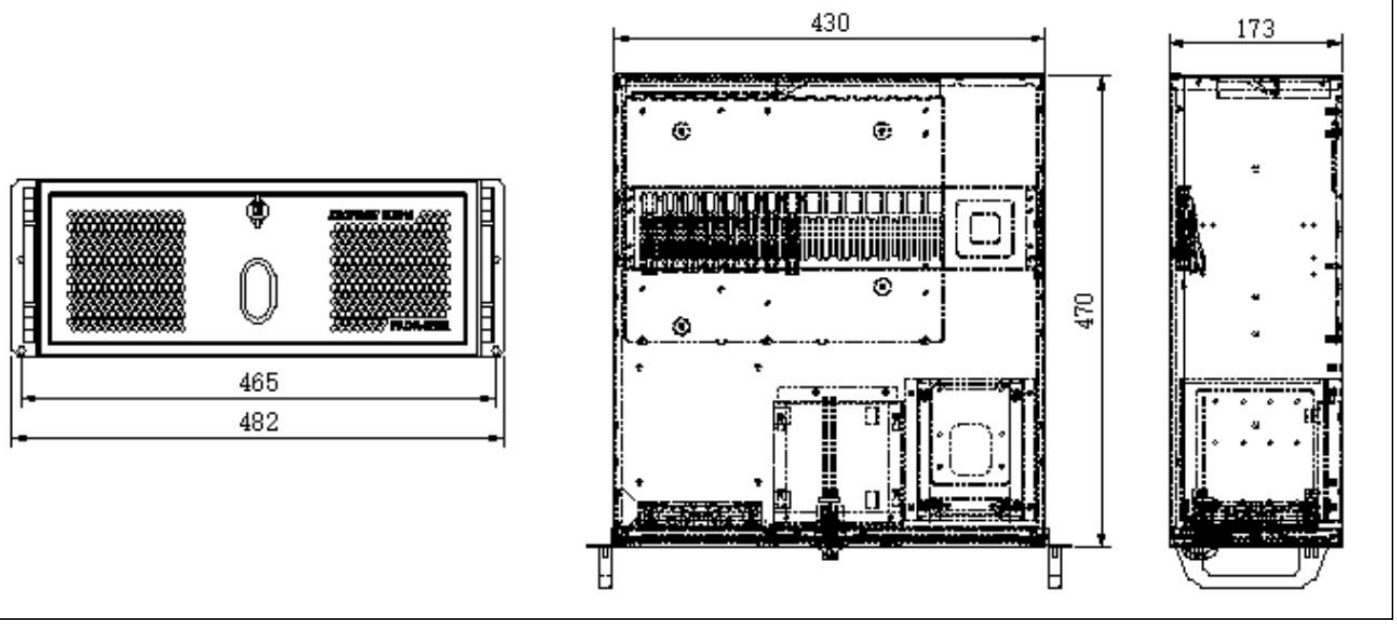
SPEC.

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 DDR5 4400MHz, up to 192GB
Expansion	1xPCIeX16 Gen5.0 slot (X16 Signal, BOM selectable to be X8 Signal), 1xPCIeX16 Gen4.0 slot (X4 Signal, BOM selectable to be X8 Signal), 3xPCIeX4 Gen4.0 slot (X4 Signal), 2x33/66MHz PCI slot, 1xM.2 2230 E-Key(PCIe+USB2.0, 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 I210AT, 10M/100M/1000M 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-T002-300WP	Intel® H770 PCH+Gen. 12/13/14th LGA1700 CPU, 4xDDR5 UDIMM, 2xLAN, 6xUSB3.2, 3xUSB2.0(one inside), 3xCOM, 2xPCIe X16 (one X16 and one X4 Signal), 3xPCIeX4 , 2x32bit 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-T002-850		AC 100-240V,ATX 850W
PADR-S501/980-T002-1300		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	