

# ERX-W480P

Intel® 10th Gen. Core™  
i9/i7/i5/i3/Pentium®/Celeron®/Xeon® W-1200 series  
Processor Micro ATX Motherboard With Intel®  
W480E Chipset



- > Intel® 10th Generation Core™ i9/i7/i5/i3/ Pentium®/ Celeron®/ Xeon® W-1200 Series Processor (Max. TDP at 125W)
- > Intel® W480E Chipset
- > 4 x 288-pin DDR4 U-DIMM supports up to 128GB (ECC memory supported by CPU)
- > DDR4 2933MHz (W1290E /W1290TE /W1270E /W1290TE /i9 /i7 CPU) /  
DDR4 2666MHz (W1250E /W1250TE /i5 /i3 CPU) /  
DDR4 2400MHz (Pentium / Celeron CPU)
- > VGA, HDMI, DP++/2CH LVDS, 4 x SATA III
- > 2 x PCI-e x16 slot for 1 x PCI-e x16 or 2 x PCI-e x8 (By Auto switch IC), 2 x PCI-e x4
- > Internal USB: 7 x USB 2.0, 1 x USB 2.0 Vertical type A, 2 x USB 3.2 Gen1
- > 1 x 4 USB 3.1 GEN1 connector at I/O
- > 1 x Intel® I219LM, 1 x Intel® I210AT Gigabit Ethernet, 2 x Intel® I225LM 2.5 Gigabit Ethernet Controller
- > 1 x Intel® X550-AT2 10GBase-T LAN (BOM optional)
- > 1 x COM at I/O, 4 x RS232, 2 x RS232/422/485 (COM2 & 3 by BIOS selection), 4 x RS232 (BOM option)
- > 1 x M.2 (2260/2280) M-Key, support SSD
- > Line-in, Mic-in, Line-out by pin-header
- > Support RAID 0, 1, 5, 10
- > Infineon SLB9665 support TPM 2.0
- > ATX Power

## + Spec

### System Information

<b>Processor</b>	Intel® LGA1200 Socket Supports 10th Generation Core™ & / Intel® Xeon®Process(Workstation) / Pentium®/Celeron® Processors
<b>Platform Controller Hub</b>	Intel® W480E Chipset
<b>System Memory</b>	4 x 288-pin DDR4 U-DIMM supports up to 128GB (ECC memory supported by CPU)
<b>I/O Chipset</b>	Nuvoton® NCT6106D Fintek F81216HD
<b>BIOS Information</b>	AMI uEFI BIOS, 256Mbit SPI Flash ROM
<b>Watchdog Timer</b>	H/W Reset, 5~255 seconds/5~255 minutes
<b>H/W Status Monitor</b>	CPU temperature monitoring Voltages monitoring CPU fan speed control
<b>TPM</b>	Infineon SLB9665 supports TPM 2.0
<b>Board</b>	Micro ATX Board

### Expansion

<b>Expansion</b>	2 x PCI-e x16 slot for 1 x PCI-e x16 or 2 x PCI-e x8(By Auto switch IC) 2 x PCI-e x4
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### Storage

<b>Storage</b>	1 x M.2 (2260/2280) M-Key, support SSD
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### I/O

<b>USB Port</b>	7 x USB 2.0 by pin header, 1 x USB 2.0 Vertical type A 4 x USB 3.2 Gen1 connector at I/O 2 x USB 3.2 Gen1 by pin header
<b>COM Port</b>	1 x COM
<b>SATA</b>	4 x SATA III
<b>DIO</b>	1 x 16-bit GPIO
<b>RS232</b>	4 x RS232, 2 x RS232/422/485 (COM2 & 3 by BIOS selection) 4 x RS232 (By BOM option)

### Display

<b>Graphic Chipset</b>	Intel® 10th Generation CPU integrated
<b>Spec. &amp; Resolution</b>	1 x VGA : 2048 x 1536@ 60 Hz 1 x HDMI 1.4: 4096 x 2160@ 30 Hz 1 x DP++: 4096 x 2304@ 60 Hz
<b>Multiple Display</b>	Triple Display
<b>LVDS</b>	LVDS: 1920 x 1080 Dual channel 18/24-bits LVDS (Chrontel CH7511B-BFI eDP to LVDS)

### Audio

<b>Audio Codec</b>	Realtek ALC897 & ALC888S (Default: ALC888S)HD Audio Decoding Controller with 6W Amplifier
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### Ethernet

<b>LAN Chipset</b>	1 x Intel® I219LM Gigabit Ethernet PHY 1 x Intel® I210AT Gigabit Ethernet 2 x Intel® I225LM 2.5 Gigabit Ethernet Controller 1 x Intel® X550-AT2 10GBase-T LAN (BOM optional)
<b>Ethernet Interface</b>	10/100/1000 Base-Tx GbE compatible, 10GBase-T LAN (BOM optional)
<b>LAN Port</b>	6 x RJ-45 (4 x RJ-45 By BOM option)

### Mechanical & Environmental

<b>Operating Temperature</b>	0~50°C, w/HDD/SSD, ambient with 0.5 m/s Air flow
<b>Storage Temperature</b>	-40 ~ 75°C
<b>Operating Humidity</b>	40°C @ 95% Relative Humidity, Non-condensing
<b>Weight</b>	1.32lbs (0.6 kg)
<b>Power Requirement</b>	+12V/+5V/5VSB/+3.3V
<b>ACPI</b>	Single power ATX Support S0, S3, S4, S5
<b>Power Mode</b>	AT/ATX
<b>Dimension (L x W)</b>	9.6" x 9.6" (243.84mm x 243.84mm)
<b>Ordering Information</b>	
<b>Ordering Information</b>	<p>ERX-W480P-A1R 10th Generation Core™ &amp; / Intel® Xeon®Process(Workstation) / Pentium®/Celeron® Processors Micro ATX Motherboard With Intel W480E Chipset (6 LAN version)</p> <p>ERX-W480P-A1-01R 10th Generation Core™ &amp; / Intel® Xeon®Process(Workstation) / Pentium®/Celeron® Processors Micro ATX Motherboard With Intel W480E Chipset (4 LAN version)</p>