









WRX80D8-2T

- ATX (12" x 9.6")
- Supports AMD Ryzen™ Threadripper™ PRO 5000WX/3000WX
- 8 DIMM slots (1DPC), supports ECC/non-ECC UDIMM, RDIMM, LRDIMM, RDIMM-3DS
- 7 PCIe4.0 x16
- 2 OCuLink (PCle4.0 x4 or 4 SATA 6Gb/s)
- Supports 2 M.2 (PCIe4.0 x4)
- 12 SATA 6Gb/s
- 2 RJ45 (10GbE) by Intel[®] X710-AT2
- Remote Management (IPMI)

Specifications

Physical Status		
ATX		
12" x 9.6" (305 mm x 244 mm)		
Processor System		
Supports AMD Ryzen™ Threadripper™ PRO 5000WX/3000WX		
Single Socket sWRX8 (LGA4094)		
AMD WRX80		
8 DIMM slots (1DPC)		
Supports DDR4 288-pin ECC/non-ECC UDIMM, RDIMM, LRDIMM, RDIMM-3DS		
ECC/non-ECC UDIMM, RDIMM: up to 128GB		
RDIMM-3DS*: up to 256GB		
*RDIMM-3DS Max. memory capacity is to be validated		
ECC/non-ECC UDIMM, RDIMM, RDIMM-3DS*: max. 3200MHz		
*RDIMM-3DS Max. memory frequency is to be validated		
1.2V		
PCIe Expansion Slots (SLOT7 close to CPU)		
SLOT7: PCIe4.0 x16 [CPU]		
SLOT6: PCIe4.0 x16 [CPU]		
SLOT5: PCIe4.0 x16 [CPU]		
SLOT4: PCIe4.0 x16 [CPU]		
SLOT3: PCIe4.0 x16 [CPU]		
SLOT2: PCle4.0 x16 [CPU]		
SLOT1: PCle4.0 x16 [CPU]		
Other PCle Expansion Connectors		
2 M-key (PCIe4.0 x4), supports 22110/2280/2260/2242/2230 form factor [FCH]		
2 OCuLink (PCIe4.0 x4 or 4 SATA 6Gb/s) [FCH]		
AMD WRX80 (12 SATA 6Gb/s):		
2 OCuLink, 4 SATA 7-pin		
Intel® X710-AT2: 2 RJ45 (10GbE)		
ASPEED AST2500		

IPMI Dedicated GLAN	1 x Realtek RTL8211E for dedicated management GLAN	
Graphics		
Controller	ASPEED AST2500	
VRAM	DDR4 512MB	
Rear I/O		
UID Button/LED	1	
VGA Port	1 DB15	
Serial Port	1 DB9	
USB 3.2 Gen1 Port	2 Type-A (USB3.2 Gen1)	
RJ45	2 RJ45 (10GbE) 1 dedicated IPMI	
Internal Connector/Heade	ers	
Power Connector	1 (24-pin, ATX main power), 2 (8-pin, ATX 12V)	
Auxiliary Panel Header	1 (18-pin): chassis intrusion, system fault LED, LAN1/LAN2 activity LED, locate, SMBus	
System Panel	1 (9-pin): RSTBTN, PWRBTN, HDDLED, PWRLED	
Speaker Header	1 (4-pin)	
Fan Header	7 (6-pin)	
Thermal Sensor Header	2	
TPM Header	1 (13-pin, SPI), 1 (17-pin, LPC)	
HSBP	1	
SMBus header	1	
PMBus header	1	
IPMB Header	1	
Clear CMOS	1 (contact pads)	
USB 3.2 (Gen1) Header	1 (19-pin, 2 USB3.2 Gen1)	
USB 3.2 (Gen2) Header	1 (Type-C, 1 USB3.2 Gen2)	
NMI Header	1	
LED Indicators		
Standby PWR LED 5vsb	1	
80 Debug Port LED	1	
Fan Fail LED	7	
BMC heartbeat LED	1	
System BIOS		
BIOS Type	AMI 256 Mb SPI Flash ROM	
BIOS Features	Plug and Play (PnP), ACPI 2.0 Compliance Wake Up Events, SMBIOS 2.8.0, ASRock Rack Instant Flash	
Hardware Monitor		
Temperature	CPU, DRAM, MB, Card Side, Chipset Temperature Sensing	
Fan	CPU/Rear/Front Fan Tachometer CPU Quiet Fan (Allow CPU Fan Speed Auto-Adjust by CPU Temperature) CPU/Rear/Front Fan Multi-Speed Control	
Voltage	3VSB, 5VSB, VCPU, VSOC, VCCM, APU VDDP, 1.05V_PROM_S5, 2.5V_PROM, 1.05V_PROM_RUN, BAT, 3V, 5V, 12V	
Environment		
Temperature	Operation temperature: 10°C ~ 35°C / Non operation temperature: -40°C ~ 70°C	
Humidity	Non operation humidity: 20% ~ 90% (Non condensing)	

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