

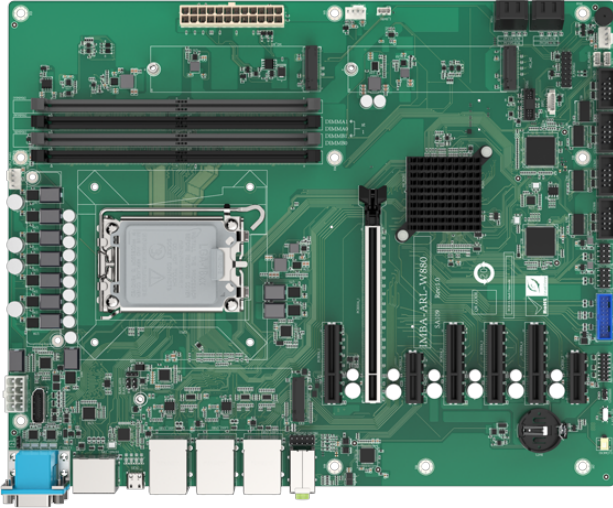
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IMBA-ARL-W880

ATX motherboard supports high-performance Intel® Core™ Ultra Processors (Series 2) processor, DDR5, Quadruple independent displays, dual 2.5GbE LAN, M.2, USB 3.2, SATA 6Gb/s, HD Audio and RoHS

Features

1. High-Performance Intel® Core™ Ultra Processors (Series 2)
2. Support four 288-pin 5600 MHz Dual-Channel DDR5 SDRAM Unbuffered DIMMs supported up to 192GB (ECC & non-ECC support)
3. Quad independent display via HDMI, DP and USB4
4. Support Dual Intel® I226V/I226LM 2.5GbE controller
5. Support PCIe Gen4 x1, PCIe Gen4 x4, PCIe Gen5 x16, M.2 M key and M.2 B key expansion



Specifications

Form Factor	
Form Factor	ATX
System	
CPU	High-Performance Intel® Core™ Ultra Processors (Series 2) (up to 125W TDP CPU)
Chipset	Intel® W880
Memory	Four 288-pin 5600 MHz Dual-Channel DDR5 SDRAM Unbuffered DIMMs supported up to 192GB (ECC & non-ECC support)
Cooling method / System Fan	1 x CPU fan connector (1x4 pin) 2 x System fan connector (1x4 pin)
Physical Characteristics	
Dimensions (LxWxH) (mm)	244mm x 305mm
Net Weight	GW: 1200g / NW: 700g
Storage	
Storage	4 x SATA : 4 x SATA 6Gb/s (RAID 0/1/5/10 supported)
I/O Interface	
Display Output	1 x HDMI™ : up to 4K@30Hz 2 x Display Port - 1 x DP1.4 (up to 4K@60Hz) 1 x DP1.4 (up to 4K@60Hz) internal 1 x USB4 : up to 4K@60Hz
Ethernet	2 x LAN - LAN1: Intel® I226-LM 2.5GbE controller LAN2: Intel® I226-V 2.5GbE controller
Audio	HD Audio - Realtek ALC888S HD codec 2 x Audio Jack (Line-out, Mic-in) on rear IO 1 x Analog audio (2x5 pin)
I/O Interface	2 x External RS-232/422/485 : RS-485 support AFC 4 x Internal RS-232 : 2x5 pin, P=2.54

	4 x Internal USB 2.0 : 2x4 pin, P=2.54
	1 x DIO : 12-bit digital I/O (2x7 pin)
	6 x External USB 3.2 Gen2x1 : Type-A, 10Gb/s
	2 x Internal USB 3.2 Gen1x2 : 5Gb/s, 2x10 pin, P=2.00
Expansion	1 x PCIe x16 : PCIe x16 with Signal Gen5
	4 x PCIe x4 : PCIe x4 open-end Gen4
	2 x PCIe x1 : PCIe Gen4 x1
	3 x M.2(NGFF) - 1 x M.2 M Key (2280, PCIe x4) NVMe support 1 x M.2 M Key (2280, PCIe x2) NVMe support 1 x M.2 B key for IRIS2-2600
Power	
Power Consumption	3.3V@4.39A, 5V@12.57A, 12V@7.21A, 5Vsb@0.36A (Intel 15th Q4A9 with DDR5 4800MHz U-DIMM 16GB memory)
Power Supply	ATX/AT power supply
	Support AT/ATX mode
	ErP/EuP Compliant
Environment	
Operating Temperature	-10°C ~ 60°C
Storage Temperature	-30°C ~ 70°C
Humidity	5% ~95%, non-condensing

Ordering Information

IMBA-ARL-W880-R10	LGA1851 socket supports 15th generation Arrow Lake-S Intel® Ultra Processor (up to 125W TDP CPU)
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Packing List

1 x IMBA-ARL-W880 single board computer	1 x I/O Shielding
2 x SATA cable	1 x QIG