

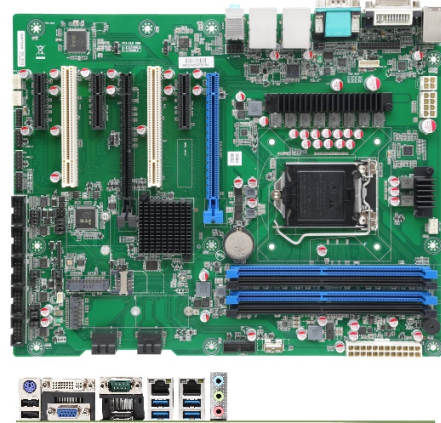
DMB-AQ470

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Intel® 10/11th Generation Core™ i3/i5/i7/i9 CPU, Q470 Chipset, 2× PCIeX16, 3× PCIeX4, 2× PCI 6× COM, 13× USB, 2× LAN

Features

- Supports Intel® 10/11th Gen Core™ i3/i5/i7/i9 CPU
- Adopting Intel® Q470 Chipset
- 2× Intel GbE LAN, 6× USB 3.0, 7× USB 2.0, 6× COM
- Supports Triple display of 1× VGA, 1× HDMI, 1× DVI, 1× eDP
- 2× PCIe 16, 3× PCIe 4, 2× PCI
- Supports vPro, AMT, RAID, TPM 2.0, Case Open



Specifications

Model	DMB-AQ470
CPU	Support Intel® 10/11th Generation Core™ / Pen:um/ Celeron Desktop CPU, LGA1200 Support MAX CPU TDP: Deca-Core 125W
Chipset	Intel® Comet Lake, Q470, TDP 6W
Display [1]	1× DVI-D (DVI-I): Support DVI-D, max resolution up to 1920x1200@60Hz 1× HDMI 1.4b (TYPE-A): up to 4096x2160@30Hz 1× VGA (DB15/F): max resolution up to 1920x1200@60Hz 1× eDP (Header): max resolution up to 4096x2304@60Hz
Memory [2]	Support DDR4-2400/2666/2933/3200MHz, 4× Non-ECC U-DIMM Slot, Up to 128GB
Storage	supports RSTRAID 0, 1, 5, 10, 4× SATA3.0 7P Connector 1× M.2 Key-M Slot (PCIe 4 NVMe / SATA SSD Auto Detect, 2242/2280)
Ethernet	RJ45 USB1 (RJ45): 1× 1219-LM GBELAN Chip (10/100/1000 Mbps, RJ45) RJ45 USB2 (RJ45): 1× 1210 GBELAN Chip (10/100/1000 Mbps, RJ45)
Audio	Realtek HDA Codec, 1× Front Audio Header (Line-Out + MIC) 1× SPDIF Out Header 1× Line-out + Line-in + MIC 3.5mm Jack
Expansion Slots	2× PCI Slot 1× Mini PCI-E Slot (WIFI+4G/3G, with 1× Full-Size SIM Card Slot) 1× PCCLK 66MHz Enable/Disable Select Jumper 1× PCI-E Signal Select Jumper 1× PCI-E 16x Slot (PCIe 16X GEN3 [5]) 1× PCI-E 16x Slot (PCIe 8X GEN3, no resources by default) [5] 3× PCI-E 4x Slot (PCIe 4X GEN3)
COM	1× RS232 (COM1, DB9/M) 3× RS232 (COM2 i5/6, Header) 1× RS232/RS422/RS485 (COM3, Header) 1× RS232/RS485 (COM4, Header)
USB	4× USB3.0 (TYPE-A, Rear IO) 2× USB3.0 (Header, Internal) 2× USB2.0 (TYPE-A, Rear IO) 1× USB2.0 (vertical TYPE-A, Internal) 4× USB2.0 (Header, Internal)

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Other Ports	8× GPIO 1× PS/2 Connector (Keyboard & Mouse) 1× Front Panel Header (HDD LED+PWR LED+PWR ON+RESET) 1× Port80 Debug Header 1× SMBUS Header 2× System FAN Header 1× CPU FAN Header 1× Case Open Header 1× CMos Clear Jumper 1× AT or ATX Select Jumper1*ME Flash Header 1× Data Burning Header
TPM	SLB9670VQ2.0,TPM2.0 (Not onboard by default), Support Intel PTT Default
System	Windows 10 64-bit,Linux
Temperature	Storage:-20~75°C Opera:ng: 0~60°C
BIOS	AMI UEFI BIOS (Support Watchdog Timer)
Power Supply	ATX Standard (24P+8P+4P) 1× ATX4P CPU Power Input Connector 1× ATX 8P CPU Power Input Connector 1× ATX 24PPower Input Connector
Factor	ATX Standard (305mm× 244mm)

Notes:

[1]: Chipset can be customized into Intel® W480/ Q470E/ W480E.

[2]:Intel® Q470W480/ Q470E/ W480E supports three independent displays.

[3]:The maximum memory frequency depends on CPU.Only Intel@W480W48OE supports ECC.

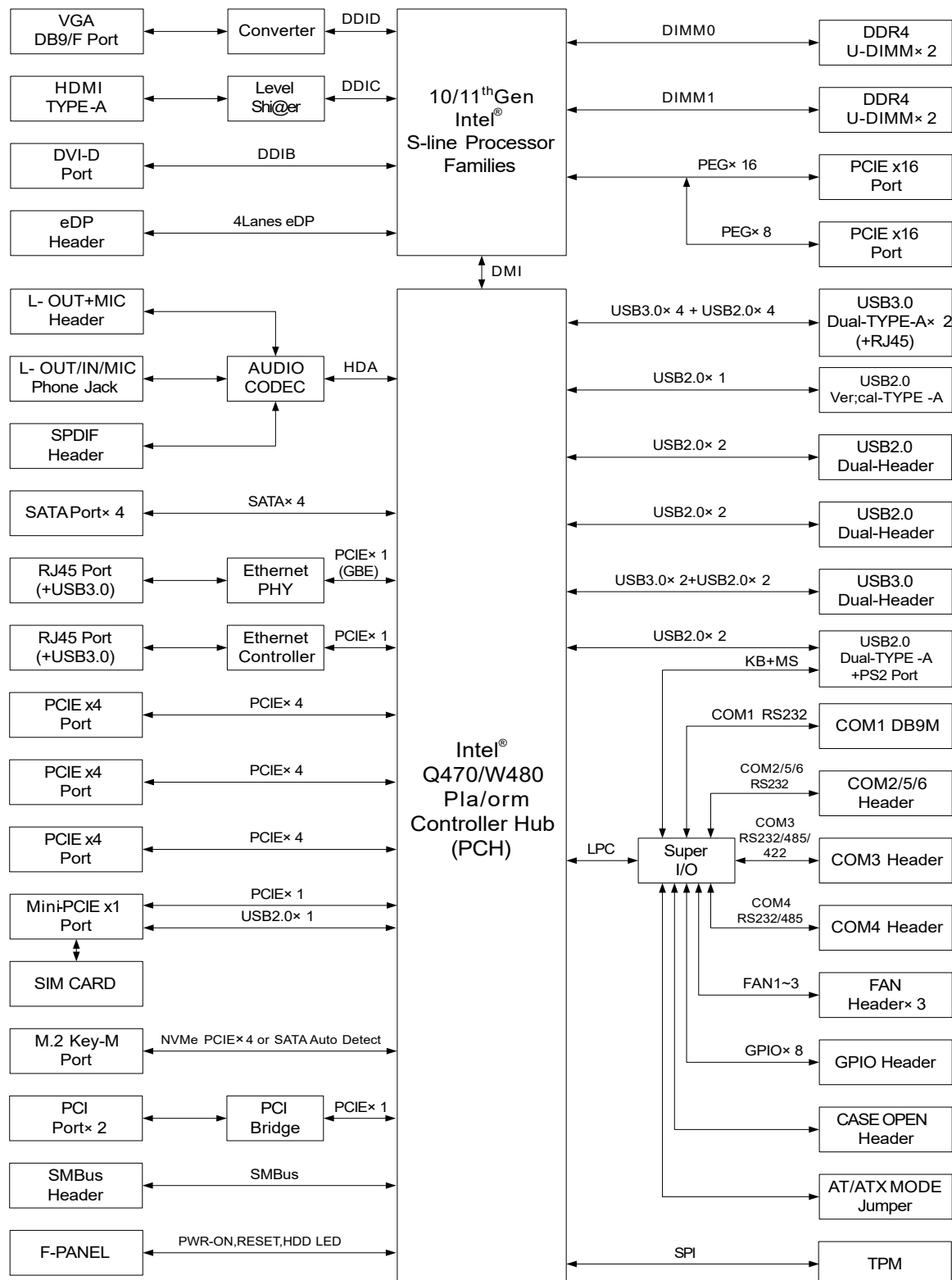
[4]:R.J45_USB1(R.45)1219-LMsupports Intel AMT 12.0 and Intel vPro competent. R.J45_USB2(R.45)supportsI210 by defaultand can support i211 if specified.

[5]: When using Q470, PCIEX16_SLOT1-2 slot support PCIE 16x or dual PCIE 8x is Selected by 'PCIE Signal SelectJumper'(J_PEG_CFG1,Loca:on 33). It also can support auto detected if specified.(BOM selec: on)When using H70, it just supportPCIEx16_SLOT1.

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Functional Block Diagram



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Packing list

COM data cable (singleport) DB9 (with iron plate) to 10P 2.54MM spacing pin (plug the 10th hole), with a total length of 40cm cross connection	5pcs/ set	COM data cable	
SATA data cable 7P-7P 180 ° -180 ° with shrapnel at both ends, with a total length of 50cm yellow wire	1pcs/ set	SATA data cable	
IO blocking SVIO-312 with three layers and 2.5mm aluminum foil foam for selection (2×RJ45)	1pcs/ set	IQ blank	

Ordering information

Product Model	Parameter
DMB-AQ470	Intel® 10/11th Generation Core™ i3/i5/i7/i9 CPU, Q470 Chipset, 2× PCIeX16, 3× PCIeX4, 2× PCI 6× COM, 13× USB, 2× LAN