

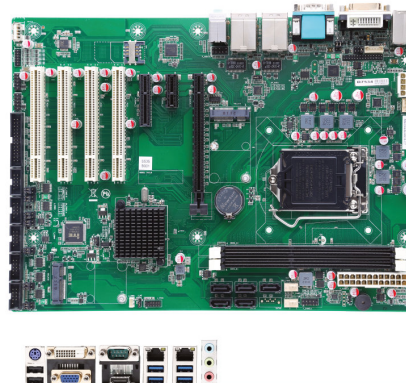
DMB-AB75

DARVEEN

Intel® 2nd/3rd Generation Core™ i3/i5/i7 CPU, B75 Chipset, 3x PCIe, 4x PCI, 6x COM, 11x USB, 2x LAN

Features

- Supports Intel® 2nd/3rd Gen Core™ i3/i5/i7 CPU
- Adopting Intel® B75 Chipset
- 6x COM, 4x USB 3.0, 7x USB 2.0, 2x Intel® GbELAN
- Supports Triple display of 1x VGA, 1x HDMI, 1x DVI, 1x eDP
- 1x PCIe x16, 1x PCIe x4, 1x PCIe x1, 4x PCI
- 2x Mini-PCIe (1x mSATA, 1x Wifi/3G/4G)



Specifications

Model	DMB-AB75
CPU	Support Intel® 2nd/3rd Generation Core / Pentium / Celeron Desktop CPU, LGA1155 Support MAX CPU TDP: 65W
Chipset	Intel® B75, TDP 6.7W
Display [1]	1x DVI(DVI-D): Support max resolution up to 1920x1200@60Hz 1x HDMI (TYPE-A): Support max resolution up to 1920x1200@60Hz 1x VGA(DB15/F): Support max resolution up to 1920x1200@60Hz 1x eDP/LVDS (Header): Support max resolution up to 1920x1200@60Hz, default LVDS
Memory [2]	Support DDR3-1333/1600MHz, 2x non-ECCU-DIMM Slot, Up to 16GB
Storage	5x SATA2.0 7P Connector 1x Mini PCI-E Slot (mSATA, SATA3.0) [3]
Ethernet	2x Intel® R GbELAN Chip (10/100/1000 Mbps, RJ45)
Audio	Realtek ALC897 5.1 Channel HDA Codec, 1x Line-out + Line-in + MIC 3.5mm Jack 1x Front Audio Header (Line-Out + MIC)
Expansion Slots	1x PCI-E16x Slot (PCI-E3.0) [4] 1x PCI-E 4x Slot (PCI-E2.0) 1x PCI-E1x Slot (PCI-E2.0) 4x PCI Slot 1x Mini PCI-E Slot (WIFI+4G/3G, with 1x Full-Size SIM Card Slot)
COM	1x RS232(COM1, DB9/M) 3x RS232(COM2/5/6, Header) 1x RS232/RS485(COM3, Header) 1x RS232/RS485(COM4, Header)
USB	4x USB3.0 (TYPE-A, Rear IO) 2x USB2.0 (TYPE-A, Rear IO) 1x USB2.0 (Vertical TYPE-A, Internal) 4x USB2.0 (Header, Internal)

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Specifications

Other Ports	8× GPIO 1× PS/2 Connector (Keyboard & Mouse) 1× Front Panel Header (HDD LED+PWR LED+PWR-ON+RESET) 1× Parallel Header 1× SMBUS Header 1× System FAN Header 2× CPU FAN Header 1× Case Open Header 1× CMOS Clear Jumper 1× ME Flash Jumper 1× USB VDD Select Jumper (For RJ45_USB1) 1× BuzzerHeader (Not onboard by default) 1× TPM Header (LPC Signals)
System	Windows 7 Linux
Temperature	Storage: -20~75°C Operating: 0~60°C
BIOS	AMIUEFI BIOS (Support Watchdog Timer)
Power Supply	ATX Standard (24P + 8P) 1× ATX 8P CPU Power Input Connector 1× ATX24P Power Input Connector
Factor	305mm× 220mm

Notes:

- [1]: Intel® B75 supports two independent displays.
- [2]: The maximum memory frequency depends on CPU.
- [3]: MINI_PCIE2 and SATA6 share the same SATA3.0 signal, they cannot be accessed simultaneously (support MINI_PCIE2 by default).
- [4]: PCIe3.0 only support by Intel® 3th genera: on Core i5/ 7 CPU.

TPM

Factor

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The diagram illustrates the Intel® B75 Express Chipset's connectivity. At the top, it connects to an Intel® Core/Pen'um/ Celeron/ 2nd and 3rd Processor LGA1155 via DMI. The chipset also interfaces with DDR3 U-DIMM×1 through CH A and CH B. On the left, it supports various expansion slots: PCI Express 16X Slot (via PEG1-16), DVI DVI-D, HDMI TYPE-A (via DDIC), VGA DB15/F (via Analog VGA), LVDS/eDP Header (via DDIB and a dashed box labeled 'Convertor'), PCI Express 4X Slot×1, PCI Express 1X Slot, PCI Slot×4, Mini PCI-E Slot (via PCIe×1 and USB2.0×1), SIM Card Slot (via UIM), Mini SATA Slot (or SATA Port) (via SATA3.0×1), SATA Port×5 (via SATA2.0×5), and L-OUT + MIC Header (via Audio Codec). The Audio Codec also connects to L-Out + MIC+ L-In 3.5mm Jack and HDA. On the right, the chipset connects to LAN RJ45 Port (via Converter and PCIe×1), USB3.0×4 TYPE-A (via USB3.0×4+USB2.0×4), USB2.0×4 Header (via USB2.0×4), USB2.0×2 TYPE-A (via USB2.0×2), USB2.0×1 Ver'cal TYPE-A (via USB2.0×1), SMBUS Header (via SMBUS), GPIO×8 Header (via GPIO), COM2-6 Header (via Super I/O), COM1 DB9/M (via Super I/O), PS/2 Connector (via Super I/O), FAN×3 (via Super I/O), and TPM (via LPC). The central component is the Intel® B75 Express Chipset.

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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-AB75	Intel® 2nd/3rd Generation Core™ i3/i5/i7 CPU, B75 Chipset, 3× PCIe, 4× PCI, 6× COM, 11× USB, 2× LAN