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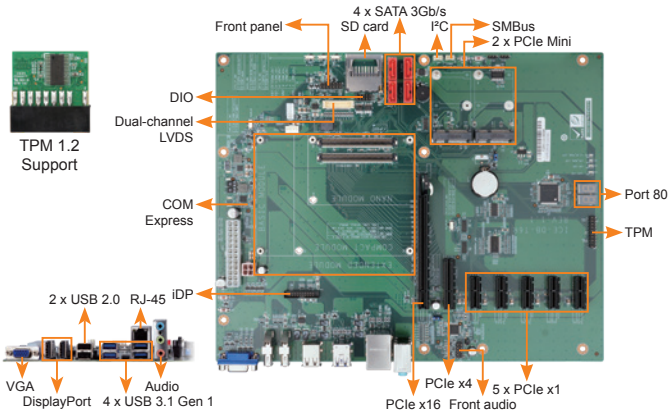
TYPE 6

ICE-DB-T6R

Baseboard for COM Express Type 6 Module COM.0 Rev. 2.1 (for ICE-ULT3, ICE-QM871 & ICE-BT-T6)



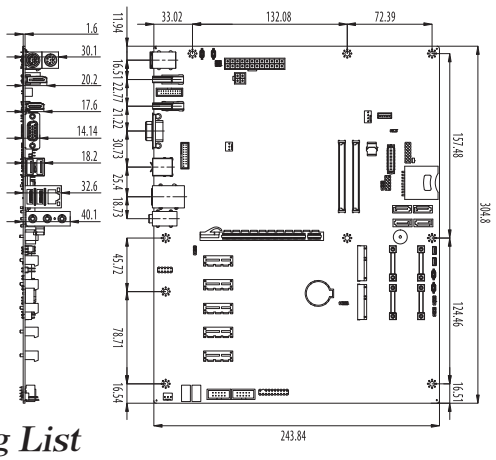
Features

- ATX form factor baseboard for COM.0 Rev. 2.1, pin-out Type 6
- Support one PCIe x16, one PCIe x4, five PCIe x1, two PCIe Mini
- Support PICMG EAPI R1.0

Specifications

- Form Factor
  ATX form factor baseboard
- CPU
  Supports COM Express Compact/Mini module using connector pin out Type 6
- Display Interfaces
  1 x DisplayPort connectors
  1 x LVDS 18/24-bit single or dual-channel (with PWM back light controller)
  1 x VGA
  2 x DisplayPort pin-header
- Audio
  Realtek ALC662 HD Audio codec (Line-in, Line-out, Mic)
- Expansion
  1 x LPC 1 x PCIe x4
  1 x PCIe x16 5 x PCIe x1
  2 x PCIe Mini (MINIPCIE1 with mSATA support, colay with SATA_4)
- Internal I/O Interface
  1 x PS2 KB/MS 4 x SATA port
  1 x SD card socket
- External I/OInterface
  1 x Audio jack (Line-in, Line-out, Mic)
  1 x DisplayPort connectors
  1 x HDMI 1 x VGA
  1 x PS2 KB/MS 2 x USB 2.0
  1 x RJ-45
  4 x USB 3.1 Gen 1 (5Gb/s)
- Front Audio: 2 x 5-pin pin header
- TPM: 1 x TPM (2x10 pin)
- 80 port: 2 x 7 segment display
- Front Panel
  1 x Front panel (2x7 pin, power LED, HDD LED, speaker/buzzer, power button, reset button)
- I²C: 1 x 4-pin wafer
- SMBus: 1 x 4-pin wafer
- Internal storage
  EEPROM (supports EAPI R1.0)
- Watchdog Timer
  Software programmable supports 1~255 sec system reset
- GPIO: 8-bit GPIO
- Power Supply
  ATX / AT Power Supply
  24+4 pins
- Fan Connector
  1 x 4-pin / 1 x 3-pin CPU module fan connector
  1 x 3-pin system fan connector by SIO
- Operating Temperature: -20°C ~ 60°C
- Storage Temperature: -30°C ~ 70°C
- Operating Humidity
  5% ~ 95 non-condensing
- Dimensions
  304.8 mm x 243.8 mm (12" x 9.6")
- Weight: GW:650g / NW:430g
- CE/FCC compliant

Dimensions *(Unit: mm)*



Packing List

1 x COM Express baseboard	1 x Mini jumper pack
2 x SATA cable	1 x QIG

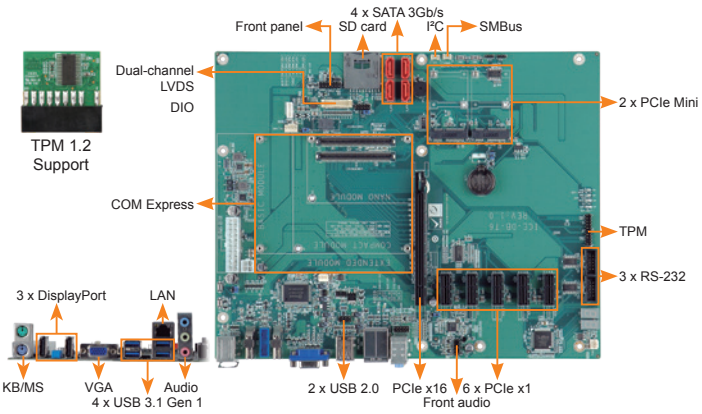
Ordering Information

Part No.	Description
ICE-DB-T6R-R11	Baseboard for COM Express Type 6 Module COM.0 Rev. 2.1, support PICMG EAPI R1.0
32102-000100-200-RS	SATA power cable, MOLEX 5264-4P to SATA15P

TYPE 6

ICE-DB-T6

Baseboard for COM Express Type 6 Module (for ICE-QM770 & ICE-CV-D25501/N26001)



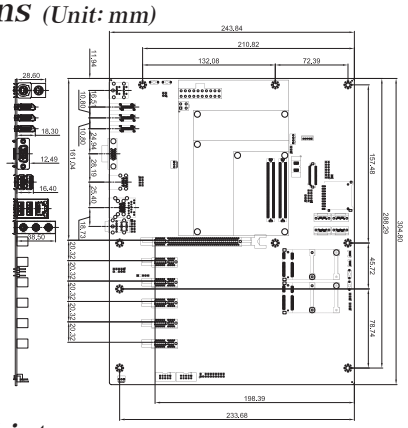
Features

- ATX form factor baseboard for COM Express Rev. 2, Pin-out Type 6
- Supports one PCIe x16, six PCIe x1 and two PCIe Mini
- Supports smart battery charger

Specifications

- Form Factor: ATX form factor baseboard
- CPU
  Supports COM Express Compact/Mini module using connector pin out Type 6
- Display Interfaces
  1 x 18/24-bit single/dual-channel LVDS
  1 x VGA
  3 x DisplayPort (2 x real connectors, 1 x pin header)
- Super I/O: W83627DHG
- Audio
  Realtek ALC892 HD Audio codec (Line-in, Line-out, Mic)
- Expansion
  1 x LPC 2 x PCIe Mini (with USB)
  1 x PCIe x16 6 x PCIe x1
- Internal I/O Interface
  1 x PS2 KB/MS 2 x RS-232 from SIO
  1 x SD 2 x USB 2.0
  4 x SATA port
  2 x RS-232 from COM Express (only TX, RX and GND)
- External I/O Interface
  1 x VGA 4 x USB 3.1 Gen 1 (5Gb/s)
  1 x RJ-45 3 x DisplayPort
  1 x Audio jack (Line-in, Line-out, Mic)
- Front Audio: 1 x Front audio (2x5 pin)
- TPM: 1 x TPM (2x10 pin)
- 80 port: 2 x 7 segment display
- Front Panel
  1 x Front panel (2x7 pin, power LED, HDD LED, speaker/buzzer, power button, reset button)
- I²C: 1 x 4-pin wafer
- SMBus: 1 x 4-pin wafer
- Watchdog Timer
  Software programmable supports1~255 sec. system reset
- GPIO: 8-bit GPIO (GPIO from iWDD co-lay SDIO)
- Power Supply: ATX/AT power supply
- Battery: Supports smart battery charger connector
- Fan Connector
  1 x 4-pin / 1 x 3-pin CPU module fan connector
  1 x 3-pin system fan connector by SIO
- Operating Temperature: -10°C ~ 60°C
- Storage Temperature: -20°C ~ 70°C
- Operating Humidity
  5% ~ 95%, non-condensing
- Dimensions
  304.8 mm x 243.8 mm (12" x 9.6")
- Weight: GW:660g / NW:450g
- CE/FCC compliant

Dimensions *(Unit: mm)*



Packing List

1 x COM Express baseboard	
1 x Dual-port RS-232 cable	1 x Mini jumper pack
2 x SATA cable	1 x QIG

Ordering Information

Part No.	Description
ICE-DB-T6-R10	Baseboard for COM Express Type 6 modules
19800-000082-RS	RS-232/422/485 cable, 14-pin to dual DB-9, 230mm, P=2.54
32102-000100-200-RS	SATA power cable, MOLEX 5264-4P to SATA15P