

MB-COME6-1

x86 Family



Mini ITX Carrier Board for COM Express Type 6 Compact Modules.

HIGHLIGHTS

- ▶ Universal platform for COM Express type 6 compact modules
- ▶ Low profile for optimized mechanical and thermal integration
- ▶ Dual DP++ monitor output for visualization
- ▶ High Speed IO Interfaces like Gigabit Ethernet and USB 3.0
- ▶ Easy to extend functionality with Mini PCIe and flexible riser interface (2x PCIe x1 and USB)
- ▶ 2.5" HDD/SSD integration without cables
- ▶ Robust and reliable with extended temperature support

Based on



TECHNICAL SPECIFICATION

Supported modules COM Express Type 6 (compact)

External interfaces (front IO)

- 2x DisplayPort (DP++) with up to 4K
- 2x Gbit Ethernet
- 2x USB 3.0
- 2x USB 2.0
- 1x RS-232
- Power and reset button

Internal interfaces

- 1x Dual channel LVDS + backlight control/power
- 3x USB 2.0
- 1x RS-232
- 1x RS-422
- 1x SATA
- Audio (headphone out, microphone in)
- Speaker out R+L (2x 2 W)
- 1x Fan (12 V, 4-pin, PWM controlled)
- 1x Fan (5 V, 3-pin, PWM controlled)
- SPI BIOS flash socket for test/debug
- Front panel control
- SMB/I2C/Smart Battery/Debug/CTRL

Mass storage and extension sockets

- 1x Mini PCIe socket (full size, with SIM card support)
- 1x CFast
- 1x Micro SD-Card
- 1x mSATA (full size)
- 1x 2.5" HDD/SSD socket (mounting kit separately available)

Riser interface 2x PCIe x1 and 2x USB 2.0 on goldfinger contacts to be used with adapters.

Power supply

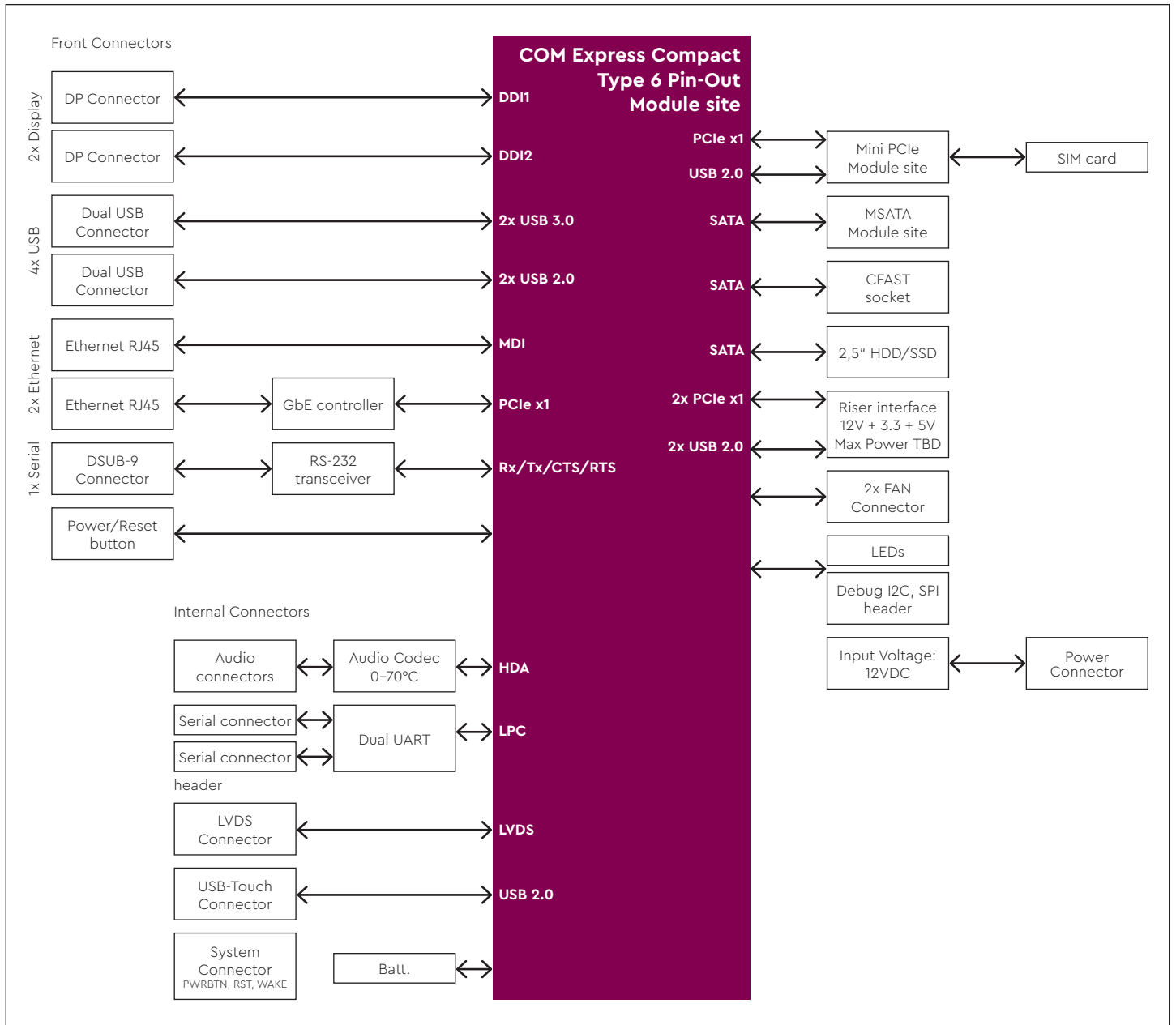
- Voltage: 12 V (+/- 5 %)
- Connector type: Phoenix MST-BA2,5/2-G-5,08
- (Mating connector: Phoenix MST-BA2,5/4-ST-5,08)
- Battery: 3 V, CR2032 (replaceable)

Environment

- Operating temperature: -20°C...+85°C
- Storage temperature: -40°C...+85°C

Form factor/ dimensions Mini ITX, 170 × 170 mm

BLOCK DIAGRAM MB-COME6-1



ORDERING INFORMATION

MB-COME6-1

Carrierboard for COM Express type 6 compact modules. Standard version.

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