

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

COM  Express

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)

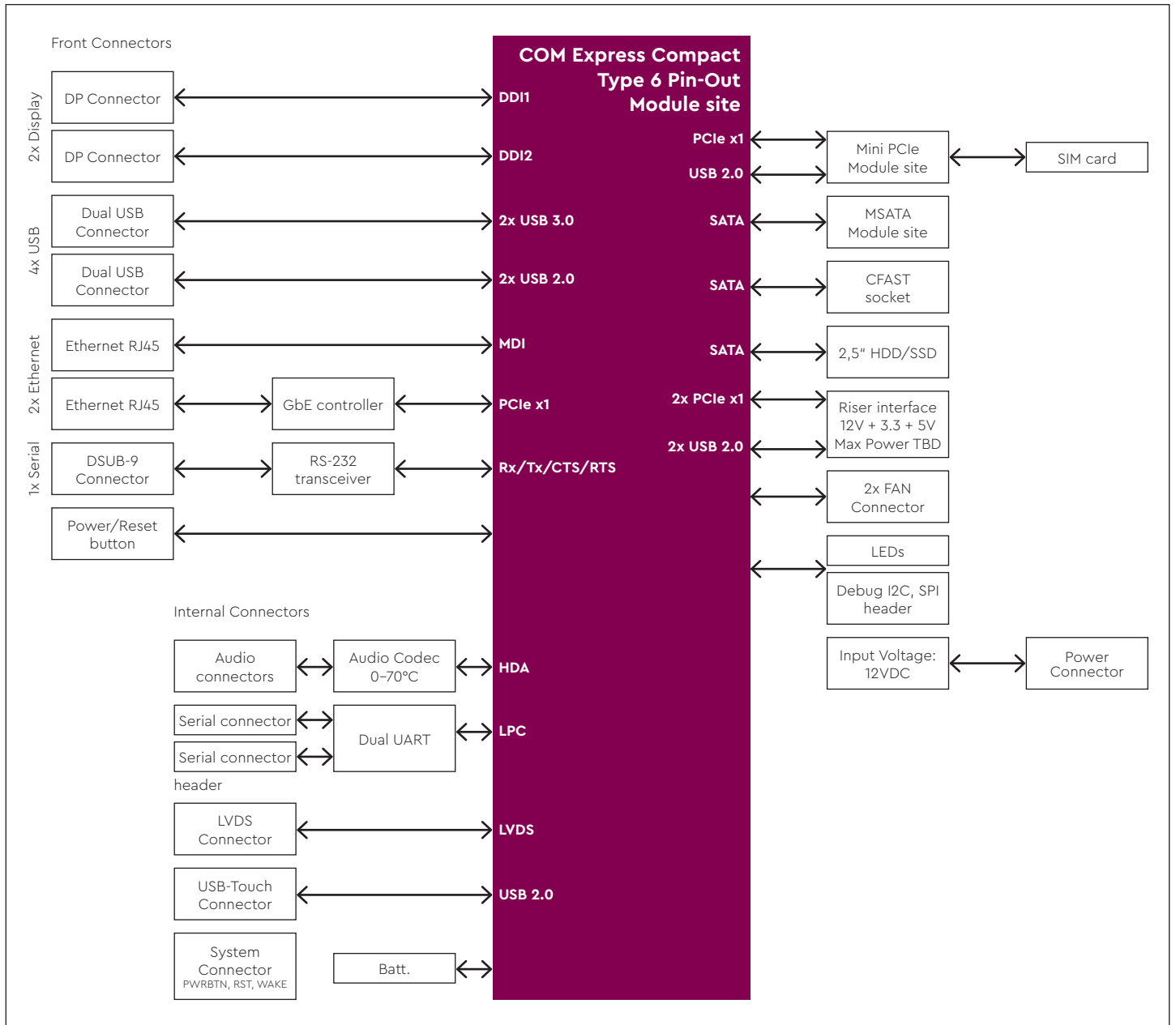
Riser interface 2x PCIe x1 and 2x USB 2.0 on goldfinger contacts to be used with adapters.

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.

TQ-Systems GmbH

Mühlstraße 2 | Gut Delling | 82229 Seefeld | Germany
 Tel.: +49 8153 9308-0 | info@tq-group.com | tq-group.com

tq-embedded.com