

MB-COME10-1

x86 Family



Mini ITX Carrier Board for COM Express Type 10 Mini Modules.

HIGHLIGHTS

- ▶ Universal platform for COM Express type 10 mini modules
- ▶ Supports eDP (not LVDS) pinout of COM Express specification
- ▶ Low profile for optimized mechanical and thermal integration
- ▶ DP++ support to be used for DisplayPort and HDMI screens
- ▶ Second screen on eDP/LVDS or additional DP++
- ▶ High Speed IO Interfaces like Gigabit Ethernet and USB 3.0
- ▶ Easy to extend functionality with Mini PCIe and flexible riser interface (PCIe x1 and USB)
- ▶ 2.5" HDD/SSD integration without cables
- ▶ Robust and reliable with extended temperature support

Based on

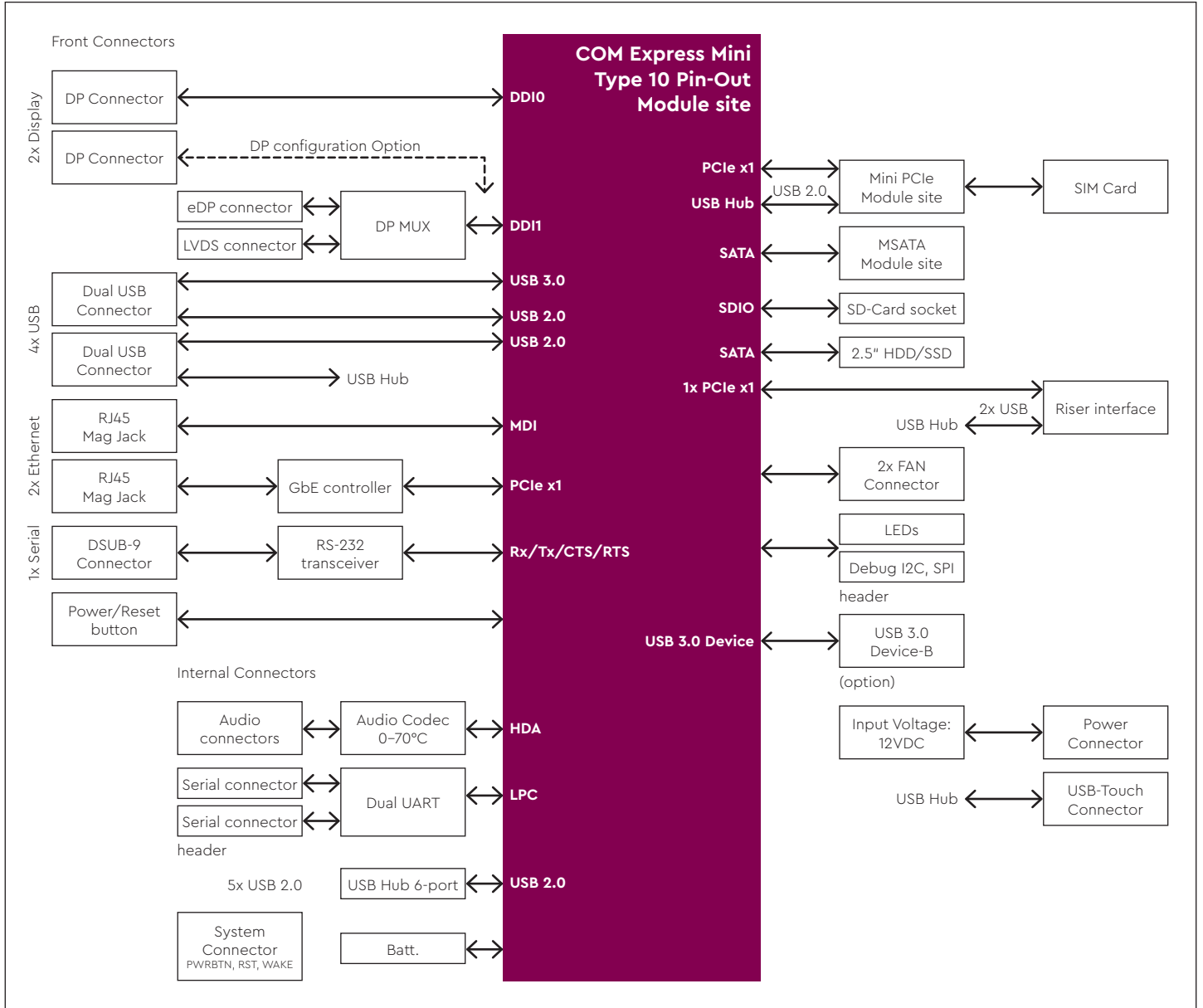
COM  Express

TECHNICAL SPECIFICATION

Supported modules	COM Express Type 10 (mini) (with eDP pin configuration)
External interfaces (front IO)	1x DisplayPort (DP++) with up to 4K 1x DisplayPort (DP++) (option) 2x Gbit Ethernet 2x USB 3.0 2x USB 2.0 1x RS-232 Power and reset button
Internal interfaces (options)	1x eDP/single channel LVDS (auto-muxed) + backlight control/power (option) 1x USB 2.0 1x RS-232 1x RS-422 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 SD-Card 1x mSATA (full size) 1x 2.5" HDD/SSD socket (mounting kit separately available)
Riser interface	1x 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-COME10-1



ORDERING INFORMATION

MB-COME10-1-AA

Carrierboard for COM Express type 10 mini modules (with eDP pinout configuration). This version supports eDP/LVDS (no second DP output) and can be used for evaluation and PanelPC integration.

MB-COME10-1-AB

Carrierboard for COM Express type 10 mini modules (with eDP pinout configuration). This version supports second DP output (no eDP/LVDS) and can be used for evaluation and BoxPC integration.

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