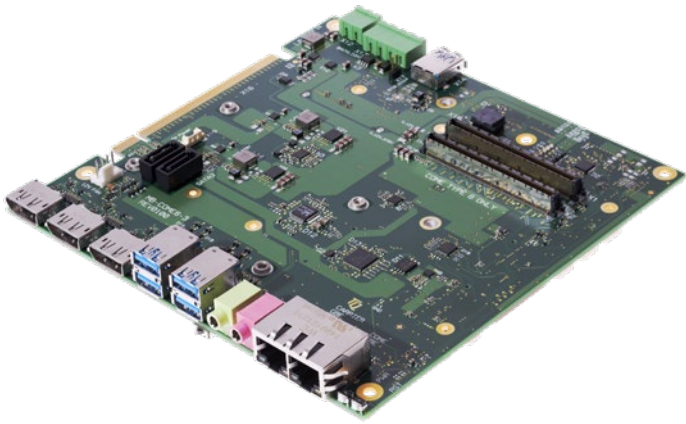


MB-COME6-3

x86 Family



Mini ITX Carrier Board for COM Express Type 6 Compact/Basic Modules with PEG (PCIe x16) Support on Riser.

HIGHLIGHTS

- ▶ Universal platform for high end COM Express type 6 modules
- ▶ Low profile for optimized mechanical and thermal integration
- ▶ Triple DP++ monitor output for high resolution visualization
- ▶ Full-featured network capabilities
- ▶ Easy to extend with M.2, Mini PCIe and riser interface (PCIe x16)
- ▶ 2.5" HDD/SSD integration without cables
- ▶ Variants optimized for BoxPC and PanelPC integration
- ▶ Robust and reliable with extended temperature support

Based on

COM  Express

TECHNICAL SPECIFICATION

Supported modules COM Express Type 6 in compact and basic format

External interfaces (front IO)
3x DisplayPort (DP++) with up to 4K
2x Gbit Ethernet
4x USB 3.0/3.1
Audio 2x 3.5 mm (headphone out, microphone in)
Power and reset button

Internal interfaces (options)
1x Dual channel LVDS or eDP (depends on variant) + backlight control/power
3x USB 2.0 (via internal USB hub)
1x USB 2.0 (Type A) on back side
1x RS-232
2x SATA (with 5 V power connector)
Speaker out R+L (2x 1.4 W)
1x Fan (12 V, 3-pin, PWM controlled)
SPI BIOS flash socket for test/debug

Riser interface PCIe x16 (alt. x8/x8) on goldfinger contacts to be used with adapters (support depends on CPU module PEG-port configuration)

Mass storage and extension sockets
1x Mini PCIe socket (full size, with micro-SIM card support)
1x M.2 2230 Key E socket (PCIe x1 and USB 2.0) for IO
1x M.2 2280 Key M socket (default SATA, optional PCIe x4) for SSD
1x 2.5" HDD/SSD socket (mounting kit separately available)

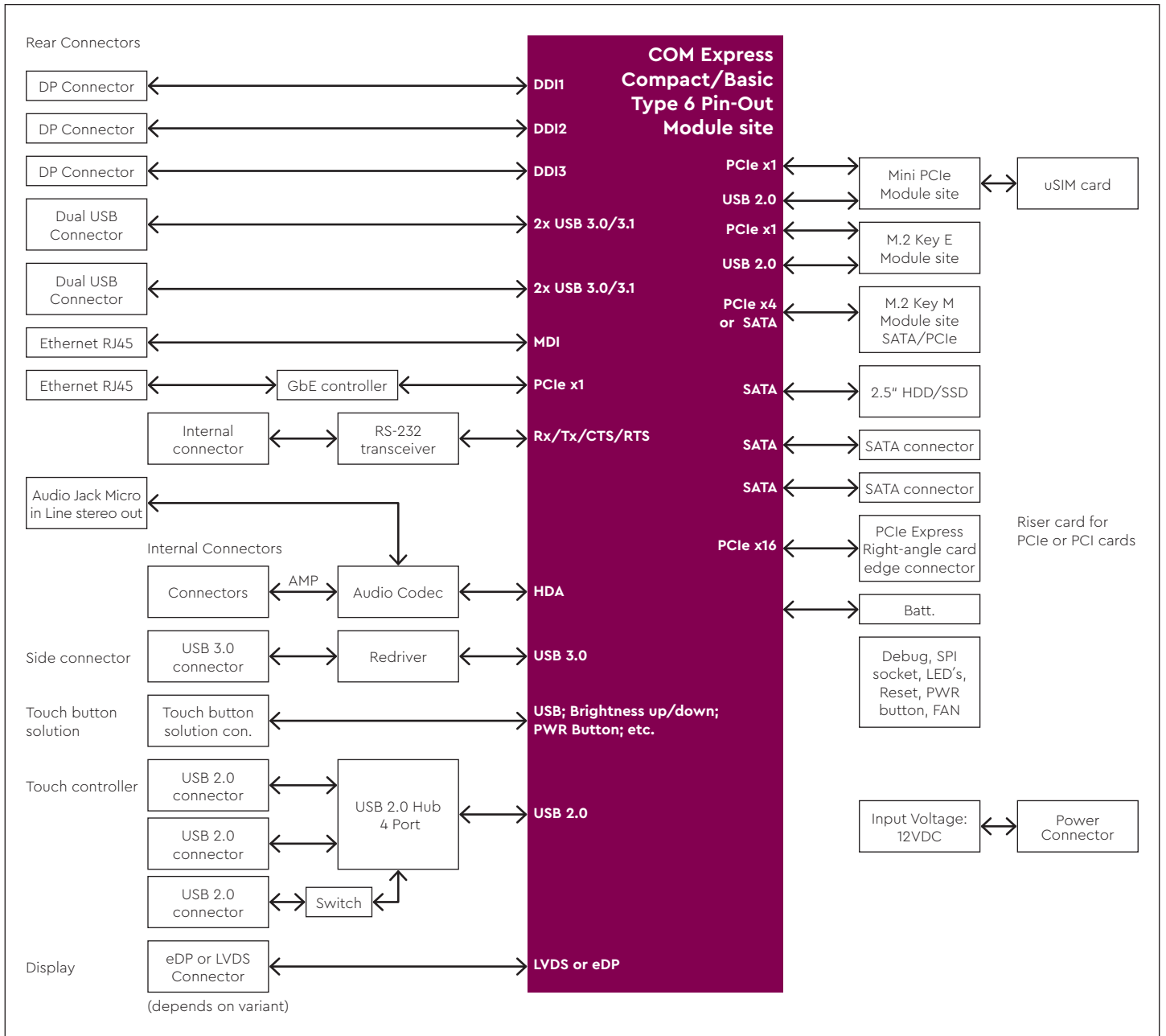
Special options (not assembled by default)
Internal connector for IO extension with I2C/UART/CTRL
Internal connector for SMB/I2C/Smart Battery
Touch button solution connector for HMI front control
USB 3.0 support for USB port on back side (only with special module config.)
Assembly option for integrated Sentinel license dongle chip

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-COME6-3



ORDERING INFORMATION

MB-COME6-3-AA

Carrierboard for COM Express Type 6 compact/basic modules. Standard version for evaluation and PanelPC integration including Dual Channel LVDS, 3x int. USB, RS-232, 2x SATA, audio amplifier for speaker, 3-pin fan connector, SPI BIOS flash socket and back side USB (Type A) connector.

MB-COME6-3-AB

Carrierboard for COM Express Type 6 compact/basic modules. Reduced version for BoxPC integration without optional internal interfaces and debug options (no LVDS/eDP,...).

MB-COME6-3-AC

Carrierboard for COM Express Type 6 compact/basic modules. Standard version for evaluation and PanelPC integration including eDP, 3x int. USB, RS-232, 2x SATA, audio amplifier for speaker, 3-pin fan connector, SPI BIOS flash socket and back side USB (Type A) connector.

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