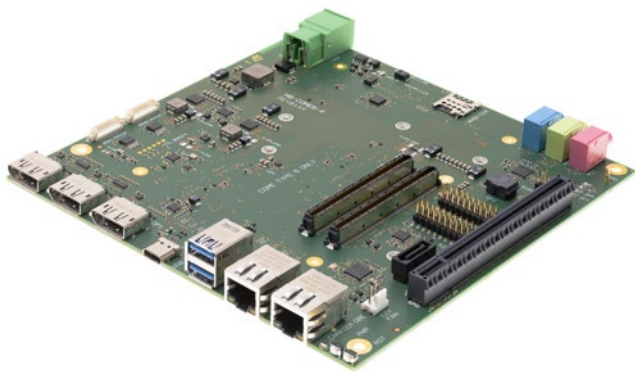


MB-COME6-4

x86 Family



Mini ITX Carrier Board for COM Express Type 6 Compact/Basic Modules with High-Speed IO.

HIGHLIGHTS

- ▶ Universal platform to evaluate high end COM Express type 6 modules (COM.0 R3.0/R3.1)
- ▶ Low profile for optimized mechanical and thermal integration
- ▶ Triple DP++ monitor output for high resolution visualization
- ▶ Full-featured network capabilities incl. 2.5 Gbit/s with TSN support
- ▶ Easy to extend with four M.2 sockets and PEG Port
- ▶ Supports various SSD types (M.2 NVMe, M.2 SATA and standard SATA)
- ▶ Perfect match to evaluate TQMx110EB, TQMx120U/C/H and TQMx130U/C/H modules from TQ

Based on

COM  Express

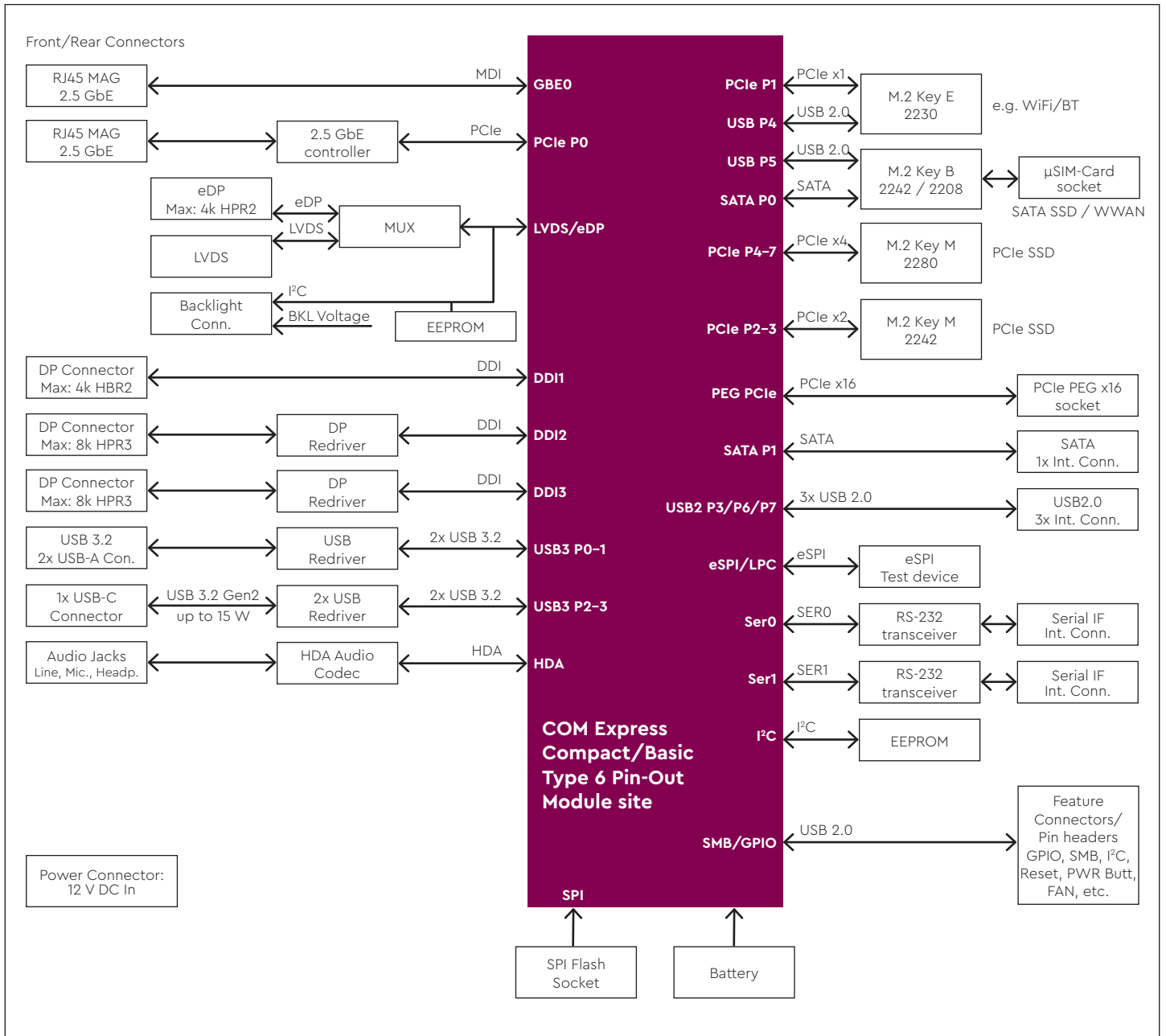
TECHNICAL SPECIFICATION

Supported modules	COM Express Type 6 Rev. 3.0/3.1 in compact and basic format
External interfaces (front IO)	3x DisplayPort (DP++) with up to 8K 2x 2.5 Gigabit Ethernet w. TSN 1x USB-C, 2x USB 3.0 Type A Power and reset button
Internal interfaces	1x Dual channel LVDS or eDP (depends on variant) + backlight control/power 3x USB 2.0 2x RS-232 1x SATA 1x Fan (12 V, 3-pin, PWM controlled) SPI BIOS flash socket for test/debug Feature connectors with GPIO, SMB, I ² C, Reset, PWR-BTN, FAN, etc.
PEG Port	PCIe x16 socket PCIe configuration depends on COM Express module (PEG Lanes 0–15)

Mass storage and extension sockets	1x M.2 socket with Key-B with USB 2.0 and SATA (with micro SIM Card support e.g. for WWAN/LTE or SATA SSDs) 1x M.2 socket Key-E with USB 2.0 and PCIe x1 (for wireless cards) 1x M.2 socket Key-M with PCIe x4 (for SSDs) 1x M.2 socket Key-M with PCIe x2 (for SSDs)
Power supply	Voltage: 12 V (+/- 5 %) Connector type: Phoenix PC4/2-G-7,62 Mating connector: Phoenix PC4/2-ST-7,62 (up to 20 A) or Phoenix PC5/2-ST-7,62 (up to 25 A) 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

Note: Support of various features and interfaces depends on CPU module which is used. Please check combination before use.

BLOCK DIAGRAM MB-COME6-4



ORDERING INFORMATION

MB-COME6-4-AA

Carrierboard for COM Express Type 6 compact/basic modules. Standard version for evaluation; validated with TQMx110EB, TQMx120UC, TQMx120PC, TQMx120HC, TQMx130UC, TQMx130PC and TQMx130HC.

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