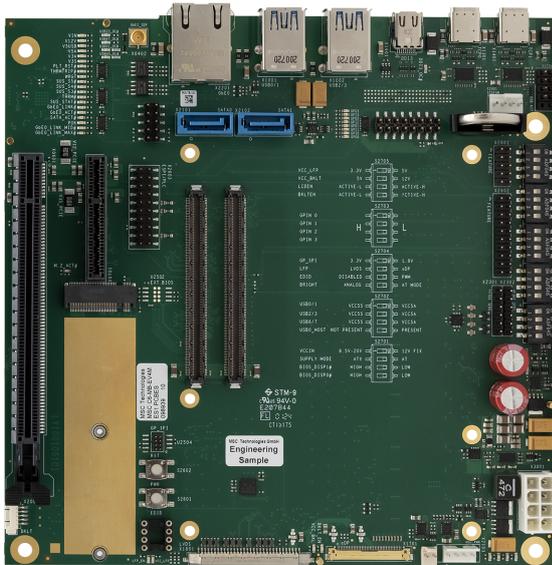


TRIA C6-MB-EV4M

COM Express™ Type 6 Mini-ITX Carrier Board

170 x 170



N.A

0 +60

COM Express



Highlights

- Interface for COM Express® Module Type 6 up to basic form factor
- One PCI Express® Gen4 x4 slot
- One PCIe Express® Gen4 x16 graphics slot (PEG)
- One M.2 Key-M slot (PCIe Gen4)
- LVDS / eDP interface
- 1 Mini DisplayPort++ connector
- 4 USB 3.1 Gen 1 / 2.0 root hub interfaces
- 2 USB 2.0 pin header
- 2 USB Type-C connectors
- 2 SATA channels up to 600 MB/s
- RJ45 Ethernet jack with integrated magnetics up to 2.5Gbit
- 2 COM ports
- Connectors for eSPI/LPC, GPIOs
- POST code display and dual RS232 on optional module
- Fan connector with PWM interface
- Power supply connector, wide input range
- Mini-ITX form factor

COM Express Type 6



Technical Data

Technology	COM Express Type 6 Carrier
Formfactor	Mini-ITX
Storage Interfaces	2x SATA connector 1x M.2-Slot (Key ID M), type 2242/2280, PCIe x4 Gen 3/4 Feature availability depending on installed module type. Please consult the product documentation for details.
USB	4x USB 3.1 Gen 1 / 2.0 Type-A on I/O shield 2x USB 2.0 on pin headers 2x USB4 Type-C on I/O shield Feature availability depending on installed module type. Please consult the product documentation for details.
Serial Interfaces	2x serial port on pin header (FTDI), TX / RX only, TTL level Feature availability depending on installed module type. Please consult the product documentation for details.
Bus Interfaces	1x PCI Express Gen4 x4 slot 1x PCIe Gen4 x16 graphics slot (PEG) Feature availability depending on installed module type. Please consult the product documentation for details.
Display Interfaces	2-channels LVDS interface on JLI30 connector multiplexed with 4-lanes Embedded DisplayPort (eDP) interface on 40-pin connector Mini DisplayPort receptacle, DP++ capable Feature availability depending on installed module type. Please consult the product documentation for details.
Network Interface	1x 1GbE / 2.5GbE from COM Express module Feature availability depending on installed module type. Please consult the product documentation for details.
Miscellaneous	Dual 220-pin connector (440 pins) Pin header for GPIOs eSPI/LPC pin header Feature connector SPI pin header for external BIOS flash Optional POST code display on module Serial E ² PROM on I ² C-Bus, serial E ² PROM on SMBus 4-pin fan connector PWM controlled RTC 3V battery, CR2032 on battery holder
Feature Highlights	Versatile carrier board for evaluation and prototyping
OS Support	BSP (for onboard devices) for Windows and Linux Feature availability depending on installed module type. Please consult the product documentation for details.
Power Requirement	EPS12V connector, 8-pin, wide input range 8.5V to 20V
Environment	Ambient Temperature 0° ... +60°C (operating), -25° ... 85°C (storage) Humidity 20 ... 80% (operating, non-condensing), 5 ... 95% (storage, non-condensing)
Dimensions	170 x 170

Technical Data for TRIA C6-MB-EV4M

COM Express Type 6



Order Reference

Order No.	Description	Reference	Status*
119830	COM Express Type 6 Evaluation Carrier Board with PCI Express x4 and x16 slots, USB 3.0/2.0, USB4 Type-C, GbE, M.2, SATA, DisplayPort, LVDS, eDP; ATX power connector. Dimensions: 170 x 170 mm (Mini-ITX form factor)	MSC C6-MB-EV4M BRDFTX	PV
111163	Extension module for MSC C6-MB-EV4/EV4M, with LPC interface, dual RS232, POST code display; Nuovoton Super I/O.	MSC C6-MB-EV-LPC-001 PCBFTX	PV

Ordering Information for TRIA C6-MB-EV4M

*PV = Preferred variant; OR = on Request (in OEM quantities only)

Accessories

Display Kits

Order No.	Description	Reference
78879	Displaykit suitable for all COM Carrier Boards and all COM Starterkits. Comprises 10.1" WVGA LCD with PCAP Touch Sensor and Touch Controller. Includes all cables required to connect to COM Carrier Boards (LVDS, B/L & Touch).	MSC DIS-AM1280800-101-KIT BRDFTX

10.1" Display kit

Order No.	Description	Reference
78880	Displaykit suitable for all COM Carrier Boards and all COM Starterkits. Comprises 12.1" WVGA LCD with PCAP Touch Sensor and Touch Controller Includes all cables required to connect to COM Carrier Boards (LVDS, B/L & Touch)	MSC DIS-AM1280800-121-KIT BRDFTX

12.1" Display kit

Order No.	Description	Reference
81871	Displaykit suitable for all COM Carrier Boards and all COM Starterkits. Comprises 5.0" WVGA LCD with PCAP Touch Sensor and Touch Controller Includes all cables required to connect to COM Carrier Boards (LVDS, B/L & Touch)	MSC DIS-AM800480-050-KIT BRDFTX

5.0" Display kit

Order No.	Description	Reference
78911	Displaykit suitable for all COM Carrier Boards and all COM Starterkits. Comprises 7.0" WVGA LCD with PCAP Touch Sensor and Touch Controller Includes all cables required to connect to COM Carrier Boards (LVDS, B/L & Touch)	MSC DIS-AM800480-070-KIT BRDFTX

7" Display kit

Tria Technologies GmbH
Industriestr. 16
76297 Stutensee
info@tria-technologies.com
tria-technologies.com

Copyright © 2024 Tria Technologies GmbH. All data is for information purposes only and is subject to change without notice. No guarantee for legal purposes is implied. Information in this document has been carefully checked, however, no responsibility for inaccuracies has to be assumed. All brand or product names may be trademarks and property of their respective owners.