

MB-M10-1

x86 Family



Embedded NUC Carrier Board for COM Express Type 10 Mini Modules.

HIGHLIGHTS

- ▶ Compact 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
- ▶ Dual screen support for visualization
- ▶ High speed IO interfaces like Gigabit Ethernet and USB 3.0
- ▶ Easy to extend functionality with 2x Mini PCIe
- ▶ Robust and reliable with extended temperature support
- ▶ Embedded NUC (eNUC) compatible (specified by SGeT SDT.03)

Based on

COM  Express

TECHNICAL SPECIFICATION

Supported modules COM Express Type 10 (mini) (with eDP pinout configuration)

External interfaces (front IO) 2x Mini DisplayPort with up to 4K
2x Gbit Ethernet
2x USB 3.0/2.0

External interfaces (back IO) Power and reset button

Internal interfaces 2x RS-232 (incl. flow-control)
1x Fan (5 V, 3-pin, PWM controlled)
1x power-control/status
1x USB 2.0 (not assembled by default)

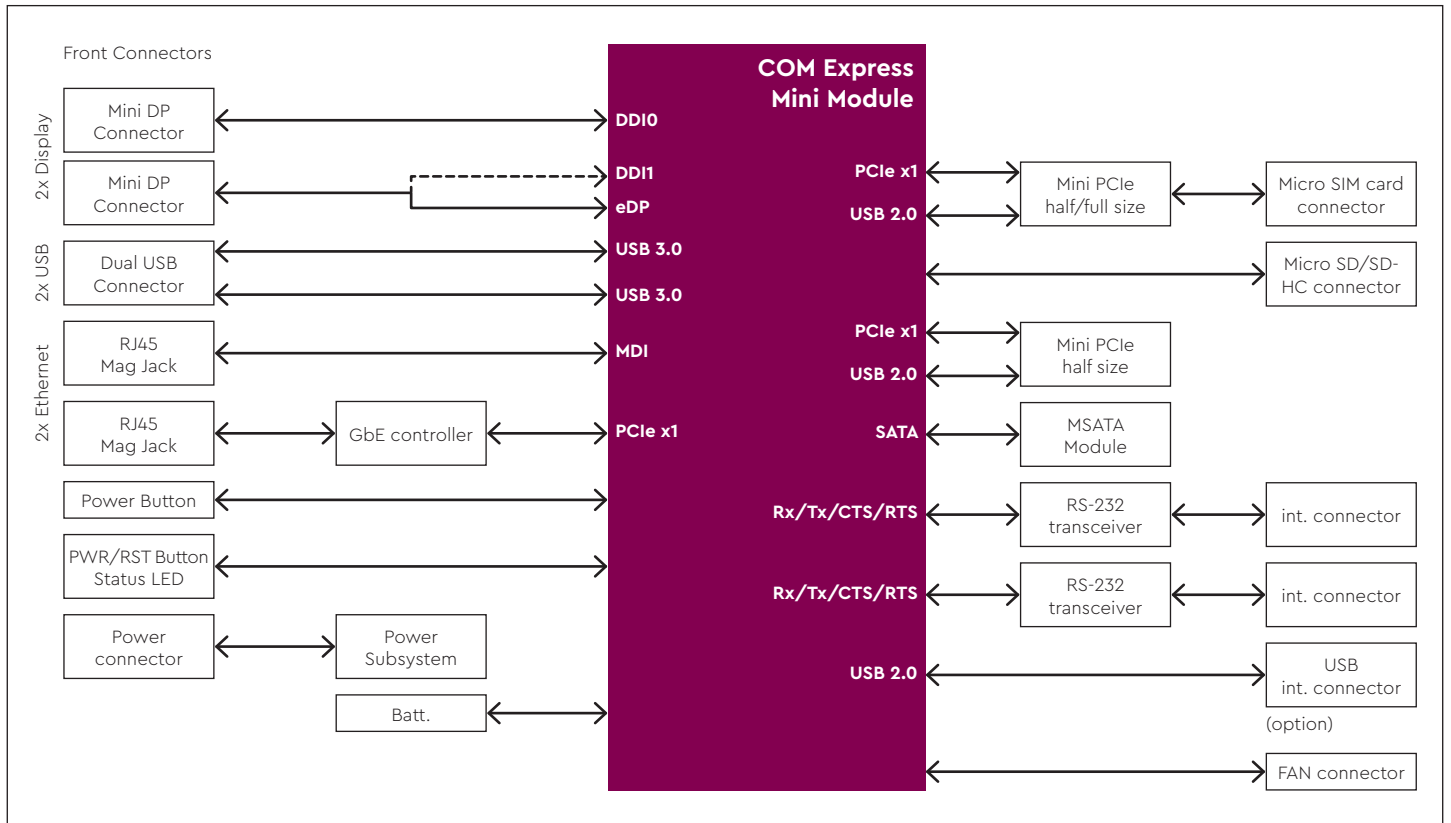
Mass storage and extension sockets 1x Mini PCIe full size (PCIe&USB), with micro SIM card socket
1x Mini PCIe half size (PCIe&USB)
1x mSATA (full size)
1x Micro SD card socket

Power supply Voltage: 9...36 V
Connector type: Phoenix MC1,5/2-G-3,5 (Mating connector: e.g. Phoenix FMC1,5/2-ST-3,5)
Battery: 3 V, CR2032 (replaceable)

Environment Operating temperature: -20°C...+85°C
Storage temperature: -40°C...+85°C

Form factor/ dimensions Embedded NUC (eNUC), 100 × 100 mm

BLOCK DIAGRAM MB-M10-1



ORDERING INFORMATION

MB-M10-1-AA

Carrierboard for COM Express type 10 mini modules (with eDP pinout configuration). Standard version with two independent screen outputs for BoxPC integration.

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