

MB-M10-2

x86 Family



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

HIGHLIGHTS

- ▶ Compact platform for COM Express type 10 mini modules
- ▶ Low profile for optimized mechanical and thermal integration
- ▶ Supports dual screen mode with external and internal interface
- ▶ High speed IO interfaces like Gigabit Ethernet and USB 3.0
- ▶ Easy to extend functionality with 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)

External interfaces (front IO) 1x Mini DisplayPort (DP++) with up to 4K
2x Gbit Ethernet
2x USB 3.0/2.0
Power and reset button

Internal interfaces 1x Single channel LVDS + backlight control/power
2x RS-232 (incl. flow-control)
1x Fan (5 V, 3-pin, PWM controlled)
1x power-control/status
1x USB 2.0

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

Power supply

Voltage: 14...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

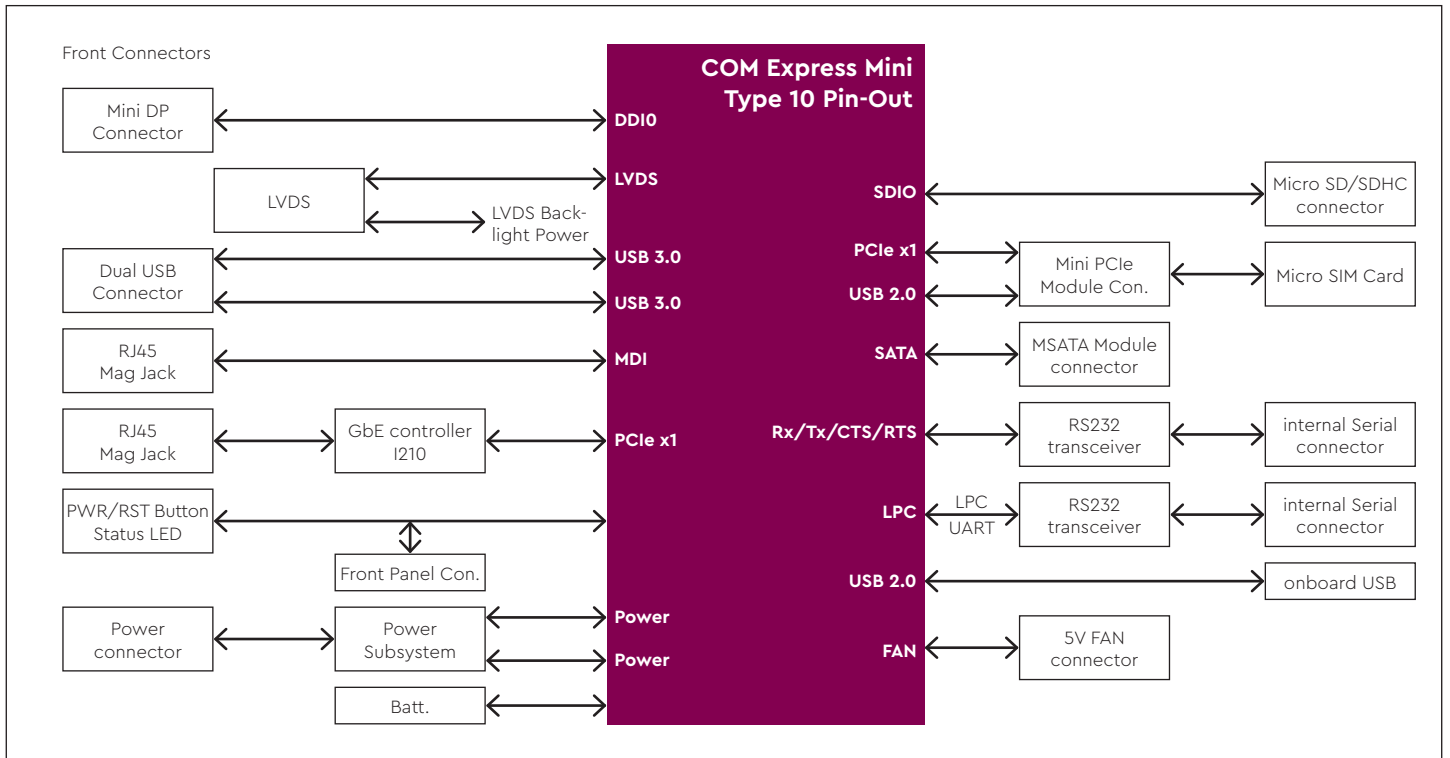
Operating temperature: -20°C...+85°C

Storage temperature: -40°C...+85°C

Form factor/ dimensions

Embedded NUC (eNUC), 100 × 100 mm

BLOCK DIAGRAM MB-M10-2



ORDERING INFORMATION

MB-M10-2-AA

Carrierboard for COM Express type 10 mini modules (with eDP pinout configuration). Standard version with LVDS support for PanelPC/HMI 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