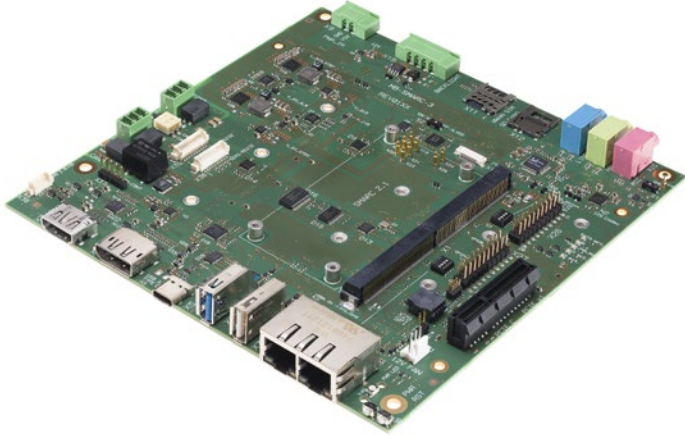


MB-SMARC-3

x86 Family



Mini-ITX Carrier Board for SMARC 2.0/2.1 Modules.

Based on



SMARC
module



STANDARDIZATION
GROUP FOR
EMBEDDED
TECHNOLOGIES

HIGHLIGHTS

- ▶ Universal platform for SMARC 2.0/2.1 modules
- ▶ Supports 1x eDP or 1x LVDS selectable via dip switch and panel support signals
- ▶ Low profile for optimized mechanical and thermal integration
- ▶ 1x DP support up to 4K (4096×2160@60Hz) (module dependent)
- ▶ 1x HDMI support up to 4K (4096×2160@60Hz) (module dependent)
- ▶ 1x USB 3.1 Gen2 Type A and 1x USB 3.1 Gen2 Type C
- ▶ High Speed networking interfaces with 2x GbE TSN Ethernet
- ▶ Easy to extend functionality with M.2 Key B, E and M
- ▶ Robust and reliable with extended temperature support

TECHNICAL SPECIFICATION

Supported Modules SMARC 2.0/2.1

External interfaces (front IO)	2x Gbit Ethernet 1x DP support up to 4K (4096 × 2160 @ 60Hz) (module dependent) 1x HDMI support up to 4K (4096 × 2160 @ 60Hz) (module dependent) 1x USB Typ C 1x USB Typ A 1x USB2.0 Audio jacks (headphone out, line in, mic in) Power and reset button, power LED
---------------------------------------	--

Mass storage and extension sockets	1x PCIe x1 socket 1x M.2 Key E (for Wifi/BT) 1x M.2 Key B (for SATA SSD, WWAN) 1x M.2 Key M (for PCIe x1 SSD) 1x micro SIM card socket
---	--

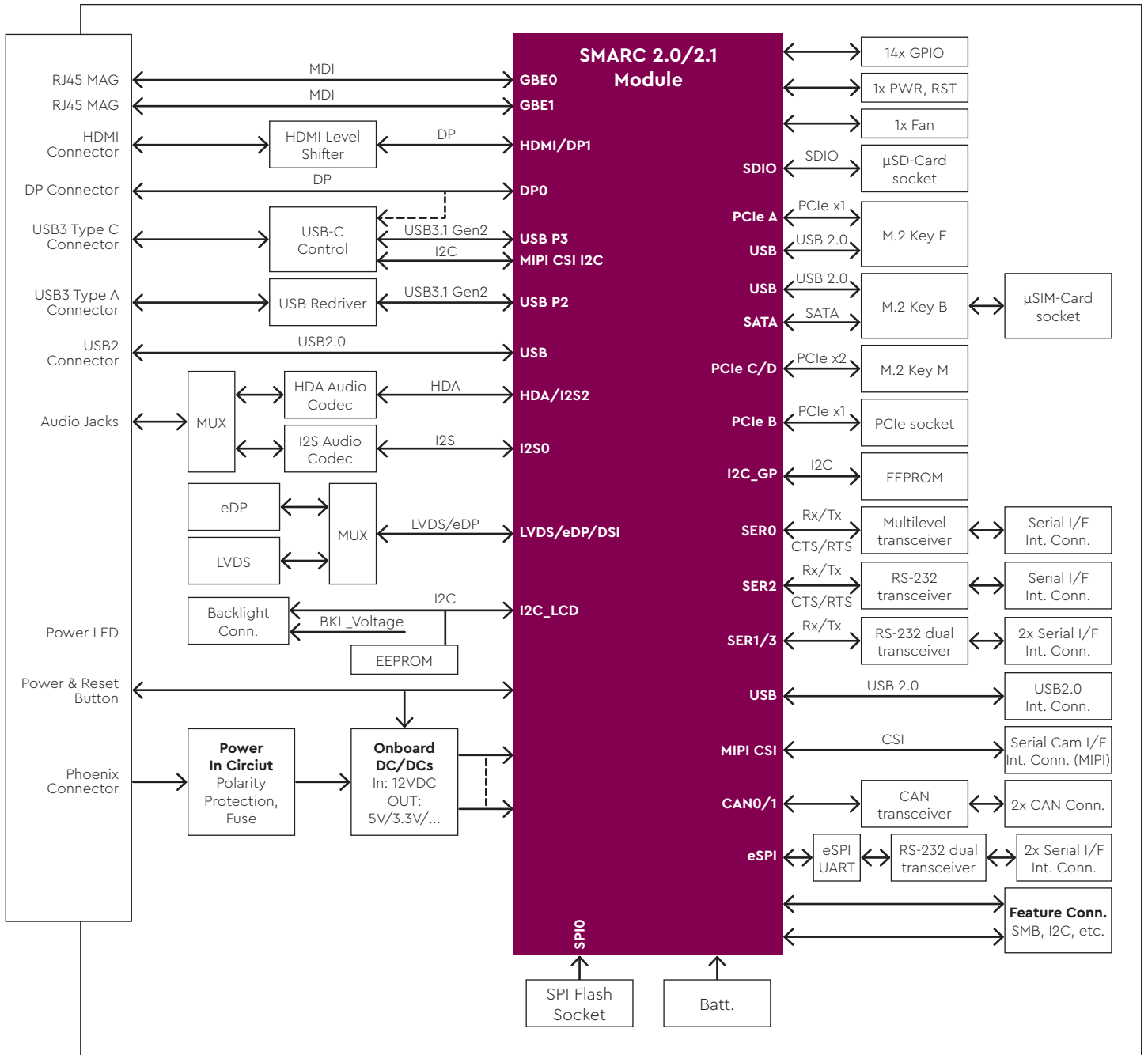
Power supply	12 Volt DC Connector Type MC1.5 / 4G-GF-3.5-LR
---------------------	---

Internal interfaces (options)	1x eDP or LVDS (selectable via dip switch) + backlight control/power 1x SPI socket (for BIOS) 1x battery holder 1x micro SD card socket 1x USB 2.0 5x RS-232 1x Multilevel Transceiver (RS-232, RS-422, RS-485) 2x CAN 1x Feature connector (SMB, I2C, etc.) 14x GPIO 1x Fan 1x PWR, RST 1x MIPI CSI connector (module dependent)
--------------------------------------	---

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

Form factor/ dimensions	Mini-ITX, 170 × 170 mm Plug-in system: SMARC 2.0/2.1
--------------------------------	---

BLOCK DIAGRAM MB-SMARC-3



ORDERING INFORMATION

Tbd.

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