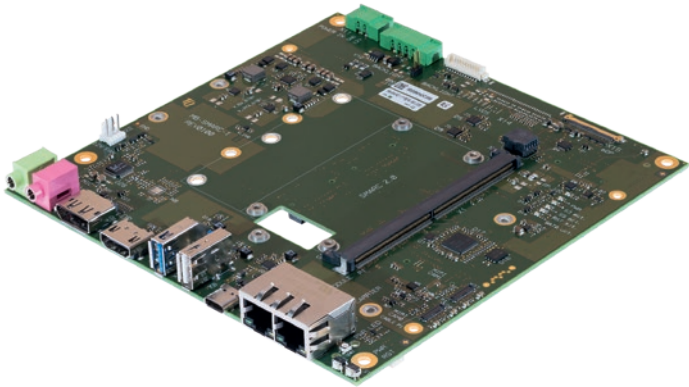


MB-SMARC-1

x86 Family



HIGHLIGHTS

- ▶ SMARC 2.0/2.1 compliant carrier board with MXM3 connector
- ▶ Board size of 170 mm x 170 mm
- ▶ Compatible with both short and full size SMARC 2.0/2.1 modules
- ▶ Supports dual channel LVDS or eDP, HDMI, DP++
- ▶ Dual GbE
- ▶ Connector for MIPI CSI camera add-on card
- ▶ USB Type C

SMARC 2.0/2.1 Carrier Board for x86 Modules.

Based on



TECHNICAL SPECIFICATION

Supported Modules SMARC 2.0/2.1 full size or short size x86 module with SMARC 2.0/2.1 compliant pinout

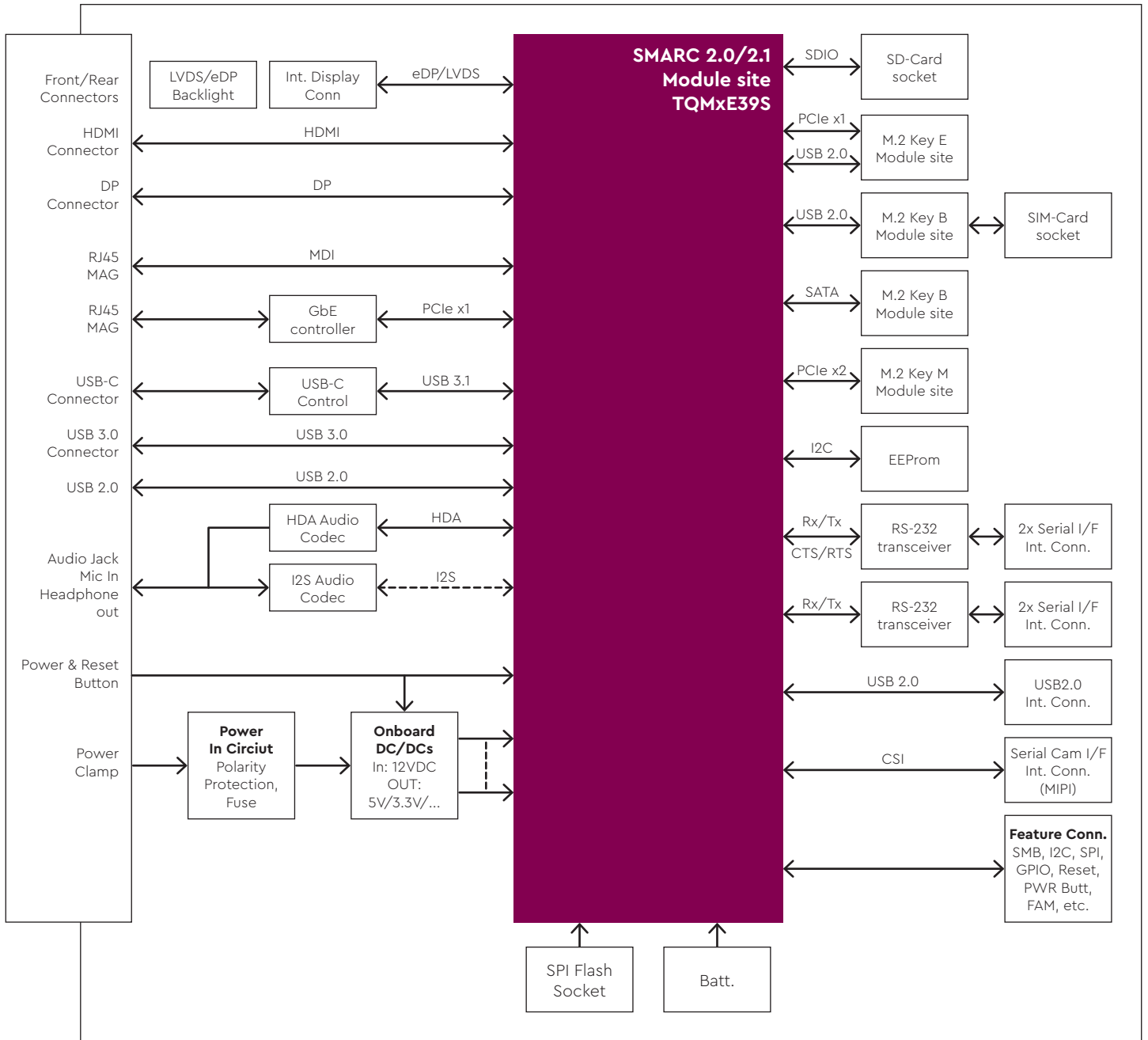
External Interfaces

- 1x Dual channel LVDS (configuration option AA) with backlight power and backlight control
- 1x eDP (configuration option AB)
- 1x HDMI
- 1x DP
- 2x GbE (1x on carrier GbE controller I210)
- 1x USB 3.0
- 1x USB Type C (1x USB 3.0)
- 1x USB 2.0
- 1x USB 2.0 pin header
- 1x Audio jack for microphone and line out/headphone
- 2x MIPI CSI pin header
- 1x micro SD card holder
- 1x M.2 Key E (USB 2.0, PCIe) for WLAN/BT
- 1x M.2 Key B (USB 2.0, micro SIM card)
- 1x M.2 Key B (SATA)

External Interfaces

- 1x M.2 Key M (PCIe A/B)
- 2x RS232 transceiver (4 serial interfaces)
- 1x SIM card slot
- Power in: 12 Volt DC
- 1x 12 Volt fan
- 1x battery holder CR2032
- 1x SPI socket with boot select jumper
- 1x HD audio codec (Realtek ALC262-VC2-GR), Reset and power button
- 1x SMBus, I2C, COM signal header Force Recovery, LID, PCIe wake signals

BLOCK DIAGRAM MB-SMARC-1



ORDERING INFORMATION

MB-SMARC-1-AA	SMARC 2.0/2.1 Carrier Board with LVDS
MB-SMARC-1-AB	SMARC 2.0/2.1 Carrier Board with eDP
STKXE39S-Individuell	Starterkit for Module TQMxE39S (depends on selected module)

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