Main Features

- TechNexion EDM-WIZARD-IMX8M platform can be applied in a wide range of applications ranging from simple IoT devices to applications with high level of complexity.
- Featuring NXP i.MX8M Quad processor that runs up to 1.3GHz per core, based on the ARM Cortex A-53 + M4 architecture, delivered in advanced low-power process.
- Featuring video quality with full 4K UltraHD resolution and HDR.
- Software source code at your fingertips: Android, Linux and Yocto.

Specifications

**Core System**
- Processor: NXP i.MX8M Quad
- Processor Speed: 1.3GHz
- Architecture: ARM Cortex-A53 + M4
- PMIC: ROHM BD71837
- Memory: up to 4GB LPDDR4
- Storage: 16GB eMMC (default)
- Board-to-Board Connector: EDM connector (314-pin MXM3)
- System on Module: EDM SOM
- Debug Interface: UART Interface by Through-hole

**Connectivity**
- Network LAN: 1x Atheros AR8035 Gigabit LAN
- Wi-Fi/Bluetooth: Qualcomm QCA9377 802.11 a/b/g/n/ac + BT (BR+EDR+BLE)
- Antenna: MHF4 connector

**Expansion Interfaces**
- Expansion Slots: 1x M.2 slot
- Expansion Headers: 1x mini-PCIe

**Internal Headers**
- Internal Display: MIPI DSI signals on 70-pin Hirose connector
- Expansion Headers: GPIO, I²C, I²S, PWM, SPI, UART

**External Connectors**
- External Display: 1x HDMI
- Audio Connectors: 1x 3.5mm jack Stereo Audio out
- Network: 1x RJ45
- USB: 1x USB 2.0 OTG (Type-C), 2x USB 3.0 Host
- Buttons: 1x Reset
- SIM Cardslot: 2x Micro-SIM cardslot

**Video**
- Graphic Engine: Vivante GC7000Lite
- Video Decode: 4K UltraHD HDR 4Kp60, H.265 VP9
- Video Encode: 1080p120 H.264
- Camera: MIPI CSI (4 lanes)

**Audio**
- Audio Codec: Cirrus Logic WM8960
- Audio Interface: I²S (2 channel)

**Power Specifications**
- Power Input: 12V DC +/-5%
- Power Connector: 2-pin Micro-Fit 3.0
- Power Consumption: Depending on Configuration

**Operation Systems**
- Standard Support: Linux, Yocto, Android
Block Diagram

Environmental and Mechanical
- Dimensions: 170 (W) x 170 (H) x 26.8 (D) mm
- Weight: 240 grams
- Operation Temperature: Commercial: 0° to +50° C
- Relative Humidity: 10 to 90%
- MTBF: 50,000 Hours
- Shock: 15G half-sine 11 ms duration
- Vibration: 1 Grms random 5-500Hz hr/axis

Certification and Compliance
- Certification: Compliant with CE / FCC / RoHS / REACH directives

Ordering Information
EDM-WIZARD-IMX8M
NXP i.MX8M Quad Development Board with up to 4GB LPDDR4, 16GB eMMC and Wi-Fi + BT wireless connectivity including MHF4 antenna, USB Type-C and UART debug cables, RTC battery, 2-pin Micro-Fit 3.0 DC power latch cable, stands and optional 5”/8”/10.1” PCAP Multi Touch LCD display, 5MP camera module, HDMI expander card or HDMI capture card.