## Main Features

- TechNexion XORE-WIZARD-IMX8M-MINI evaluation kit based on LGA solder down module blends advanced processing capabilities with sophisticated audio, video, and graphics to match almost any industrial application.
- Featuring NXP i.MX8M Mini Quad processor that runs up to 1.8GHz per core, based on the ARM Cortex A-53 + M4 architecture, delivered in advanced low-power process.
- Software source code at your fingertips: Android, Linux, and Yocto.

## Specifications

### Core System
- Processor: NXP i.MX8M Mini Quad
- Processor Speed: 1.8GHz
- Architecture: ARM Cortex-A53 + M4
- PMIC: ROHM BD71847
- Memory: up to 4GB LPDDR4
- Storage: 16GB eMMC
- System on Module: XORE SOM
- Debug Interface: UART Interface by Through-hole

### Connectivity
- Network LAN: 1x Atheros AR8035 Gigabit LAN
- Wi-Fi/Bluetooth: Qualcomm QCA9377 (optional) 802.11 a/b/g/n/ac + BT 5 (BR+EDR+BLE)
- Antenna: MHF4 connector

### Expansion Interfaces
- Expansion Slots: 1x M.2 slot, 1x mini-PCIe

### Internal Headers
- Internal Display: MIPI DSI signals on 70-pin Hirose connector
- GPIO: GPIO
- I²C: I²C
- PWM: PWM
- SPI: SPI
- UART: UART
- USB: USB

### External Connectors
- Audio Connectors: CTIA compliant 3.5mm audio jack
- Network: 1x RJ45
- USB: 1x USB 3.0 OTG (Type-C), 2x USB 3.0 Host
- Buttons: 1x Reset
- SIM Cardslot: 2x Micro-SIM cardslot
- SD Cardslot: 1x microSD cardslot

### Video
- Graphic Engine: Vivante GC Nano Ultra
- Video Decode: 1080p60 H.264
- Video Encode: 1080p60 H.264
- Camera: MIPI CSI (4 lanes)

### Audio
- Audio Codec: Cirrus Logic WM8960
- Speaker: Audio speaker connector (stereo) (2W pre-amplified)

### 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
Environmental and Mechanical

- **Dimensions**: 170 (W) x 170 (H) x 22 (D) mm
- **Form Factor**: Mini-ITX
- **Weight**: 160 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 RoHS / REACH directives

Ordering Information

XORE-WIZARD-IMX8M-MINI

NXP i.MX8M Mini 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.