Main Features

- TechNexon FLEX-PI-IMX8M-MINI evaluation kits, based on NXP i.MX8M Mini (ARM Cortex-A53 + M4 architecture), introduce groundbreaking functionality to a wide spectrum of next-generation devices.

- The development kit's features include high-performance compute, advance video processing, power efficiency, and embedded security.

- FLEX-PI-IMX8M Mini brings new capabilities to your next-gen smart designs, as well as other compute-intensive use cases, such as industrial controls, building automation, machine vision, imaging and scanning.

- Software source code at your fingertips: Android, Linux, Yocto and Ubuntu.

Specifications

Core System
Processor: NXP i.MX8M Mini
Processor Speed: up to 1.8GHz
Architecture: ARM Cortex-A53 + M4
PMIC: ROHM BD71847
Memory: up to 4GB LPDDR4
Storage: eMMC (16GB Default)
System on Module: FLEX SOM
Debug Interface: Micro USB debug

Connectivity
Network LAN: 1x Atheros AR8031 Gigabit LAN
Wi-Fi/Bluetooth: Qualcomm QCA9377
Antenna: 802.11 a/b/g/n/ac + BT (802.11EDR+BLE)

Additional Connectors
1x RJ45
1x USB 2.0 Host
1x USB 2.0 OTG (Type-C)
1x Reset
1x microSD card slot

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)

Operation Systems
Standard Support: Linux, Yocto, Android

Certification and Compliance
USA: FCC ID: 2AKZA-QCA9377
Canada: IC: 22364-QCA9377
Japan: TELECOM: 201-180629
European Union: EN 55032 / EN 55024
Australia/New Zealand: RCM
Bluetooth Logo: QDID150839 (Bluetooth 4.2)
Certification: Compliant with RoHS / REACH directives
**Environmental and Mechanical**

**Dimensions**
- 85 x 56 mm
- Form Factor: FLEX Compute Module
- Weight: 56 grams
- Temperature: Commercial: 0°C 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

**Power Specifications**
- Power Input: 5V DC +/-5%
- Power Consumption: Depending on Configuration

---

**Order Information:**

**FLEX-PI-IMX8M-MINI-1G-DEV**
- NXP i.MX8M Mini Quad Development Board with 1GB LPDDR4, 16GB eMMC and Wi-Fi + BT wireless connectivity including antenna, VOICEHAT kit, camera module, 5 inch PCAP display, cable set and cardboard stand.

**FLEX-PI-IMX8M-MINI-2G-DEV**
- NXP i.MX8M Mini Quad Development Board with 2GB LPDDR4, 16GB eMMC and Wi-Fi + BT wireless connectivity including antenna, VOICEHAT kit, camera module, 5 inch PCAP display, cable set and cardboard stand.

**FLEX-PI-IMX8M-MINI-4G-DEV**
- NXP i.MX8M Mini Quad Development Board with 4GB LPDDR4, 16GB eMMC and Wi-Fi + BT wireless connectivity including antenna, VOICEHAT kit, camera module, 5 inch PCAP display, cable set and cardboard stand.

---

*Compatible with Voicehat*