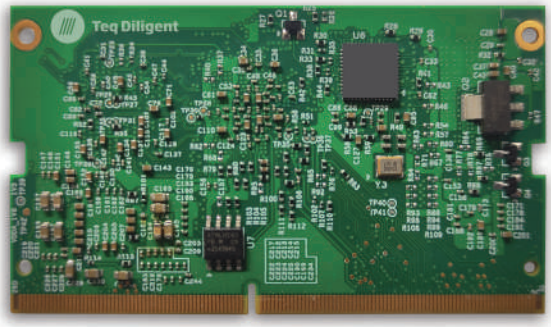
Teq Diligent

i.MX8M Mini / Nano SOM



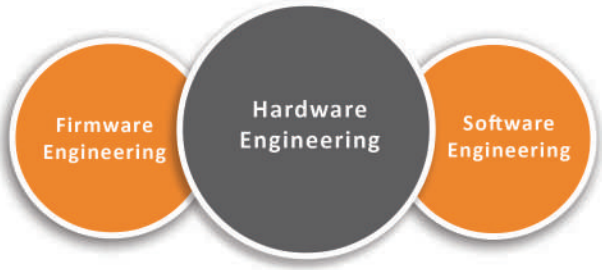
- ✔ Ready to use 64-bit ARM compute modules.
- ✔ Improve time to market by reducing development time.
- ✔ Highly Scalable System on Modules.
- ✔ On board Wireless Module support.
- ✔ Pin compatible for both Mini and Nano processor families.

Application of SOM

- Industrial Display Panel
- Industrial Automation
- Medical Appliances
- Embedded Vision
- Automotive Display
- Energy Management Controller
- Appliances

- NXP i.MX 8M Mini or Nano applications processor
- Up to 4x Cortex-A53, 1x Cortex-M4
- On-board dual-band 802.11ac 2x2 MU-MIMO WiFi and Bluetooth 5
- SODIMM form factor
- Linux, Android, Win 10 Enterprise, FreeRTOS Supported.
- Commercial, Industrial & Automotive Grade Temprature Support.

We provide design and customization services for SOM and Carrier Boards.



Other OEM Solutions

Embedded Vision Camera

Embedded Display

Click Here

Teq Diligent
Phone: +91-79-6617 0070
info@teqdiligent.com | www.teqdiligent.com
A-705, Siddhi Vinayak Tower, Near Kataria Arcade and DAV School, Off SG Highway , Makarba , Ahmedabad - 380051, Gujarat (India).

Specifications - SOM

	Mini	Nano
CPU		
CPU Name	NXP i.MX 8M Mini Quad	NXP i.MX 8M Nano Quad
Memory		
RAM	upto 4GB LPDDR4	upto 2GB LPDDR4
ROM	upto 16GB eMMC	upto 16GB eMMC
EEPROM	64Kb	64Kb
Multimedia		
Camera Serial Interface	1x Quad Lane MIPI CSI	1x Quad Lane MIPI CSI
Display Serial Interface	1x Quad Lane MIPI DSI	1x Quad Lane MIPI DSI
Audio Interface		
Digital Audio Serial (SAI) - I2S or AC97	3x	3x
PDM Microphone	8x	8x
S/PDIF	1x	1x
Networking		
Ethernet	10/100/1000 Mbps	10/100/1000 Mbps
Wi-Fi	802.11 ac/a/b/g/n	802.11 ac/a/b/g/n
Bluetooth	Bluetooth 5	Bluetooth 5
Connectivity		
USB - OTG	2x	1x
PCIE	1x	-
UART (4 Wire)	4x	4x
I2C	3x	3x
SPI	2x	2x
QSPI/FlexSPI	1x	1x
GPIO	99x	99x
PWM	4x	4x
JTAG	1x	1x
Physical		
Mechanical Specifications	69.6mm * 45mm	69.6mm * 45mm
Interfacing Scheme	260 pin SODIMM DDR4 memory module edge connector	260 pin SODIMM DDR4 memory module edge connector
Electronic & Environmental Specifications		
Supply voltage	+5VDC +/- 10%	+5VDC +/- 10%
Digital I/O voltage	+3.3VDC	+3.3VDC