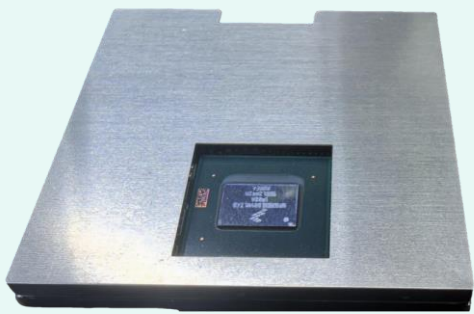
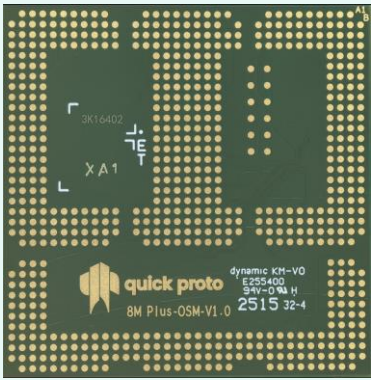


Q01_NX_8MP_OSM

(Open Standard Module with NXP i.MX 8MP)



RoHS compliant



Solderable Module

Technical Detail (released on 25-03)

CPU	NXP i.MX 8M Plus Quad 4 x Cortex-A53(Up to 1.8GHz/industrial 1.6GHz), 1 x Cortex-M7@ 800 MHz
GPU	ARM G52 2EE with support for OpenGL ES1.1/2.0/3.2, OpenCL 2.0, Vulkan1.1, High performance dedicated 2D processor
NPU	2.3 TOPS
RAM	LPDDR4/LPDDR4X 6GB (1GB to 8GB optional) , Inline ECC
ROM	32GB eMMC (8 - 128GB Optional) 5.1 flash storage
Supported OS	Linux, Android, Ubuntu, FreeRTOS
Supply power	5 V DC, 3A
Video codec	Support 1080P@60, H.265/4, VP9, VP8 decoder Support 1080P@60, H.265/4 encoder
Display	HDMI 2.0a Tx, LVDS(4-8lanes), MIPI-DSI(4-lanes)
Camera	2 x MIPI-CSI(4-lanes each)
ISP	2 x ISP Up to 12MP resolution, Up to 375 MP/s
Network	2 x Gb Ethernet with EEE, AVB, IEEE 1588 (1 x TSN), 2x CAN/CAN FD, 3 x SDIO
USB	2 x USB 2.0/3.0, Type C with PHY
PCIe	PCIe® Gen3
Audio	18 x I ² S TDM (32 bit @ 768 kHz) SP/DIF RX and TX, eARC ASRC, 8-ch. PDM
Longevity	10-15 years
Compatibility	Pin to pin compliant with Open Standard Modules™ (L) 662 contacts
Security	CAAM, RDC, TrustZone
Dimensions	45 mm x 45 mm
Temperature (Tj)	– Operating: 0°C to 95°C(-40°C to 105°C for Industrial option)
Relative Humidity	– Operating: 10% to 90% – Storage: 5% to 95%



For further information, go to <https://qtepro.com/osm/>
Or contact us by Email: admin@qtepro.com