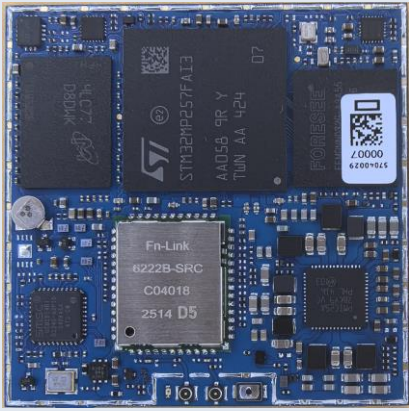
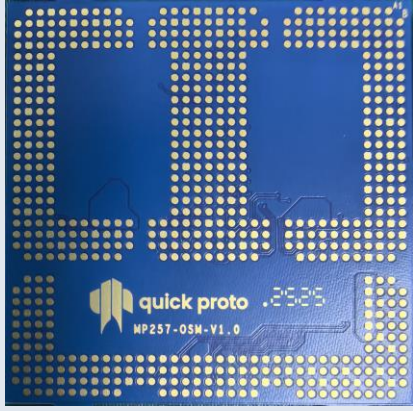


Q01_ST_MP2_OSM

(Open Standard Module with STM32MP2 Series)



RoHS compliant



Solderable Module

Technical Detail (released on 25-07)

CPU	2x ARM Cortex-A35 up to 1.5 GHz 1x ARM Cortex-M33 up to 400 MHz
GPU	3D GPU: VeriSilicon® - Up to 150 Mtriangle/s, 900 Mpixel/s with OpenGL® ES 3.1 - Vulkan 1.3 and OpenCL™ 3.0, OpenVX™ 1.3 support
NPU	Neuronal Processing Unit (NPU) VeriSilicon® with up to 900 MHz and 1.35 TOPS
RAM	LPDDR4 4GB (1GB to 4GB optional) , Inline ECC
ROM	32GB eMMC (8 - 32GB Optional) 5.1 flash storage
BSP	Linux
Supply power	5 V DC
Video codec	Video decode / encode H.264 up to 1080p60
Display	HDMI 2.0a Tx, LVDS(4-8lanes), MIPI-DSI(4-lanes) 1x 18-bit RGB666 up to FHD (1920 × 1080) @60 fps
Camera	2 x MIPI-CSI(4-lanes each)
ISP	2 x ISP Up to 12MP resolution, Up to 375 MP/s
Network	3x Gbit Ethernet, TSN, IEEE 1588v2 hardware, MII/RMII/RGMII CAN/CAN FD, 3 x SDIO
USB	1x USB 3.0 with 5Gbps Operation mode USB 3.2 Gen 1x1 1x USB 2.0 Host
PCIe	PCIe® Gen3
Audio	18 x I²S 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	Secure boot TrustZone® peripherals active tamper environmental monitors display secure layers hardware accelerators Complete resource isolation framework “On- the-fly” DDR encryption/decryption (AES-128)
Dimensions	45 mm x 45 mm
Temperature (Tj)	– Operating: -40°C to 85°
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