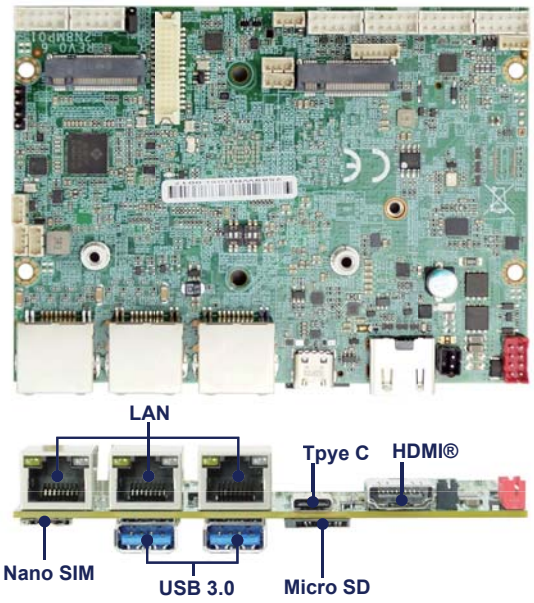
2N8MP01

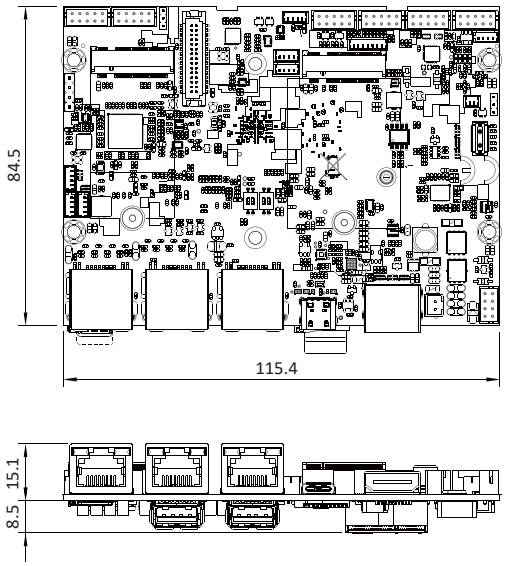
2.5" Embedded SBC supports NXP i.MX8M Plus (Quad core) ARM CortexA53 + M7 CPU, 1 x HDMI®, 1 x LVDS, 3 x Gb Ethernet, 2 x USB 3.0, 3 x USB 2.0, 2 x COM, MIPI-CSI, CANBus, 1 x TypeC, 1 x Micro SD, 3 x M.2, 1 x Nano SIM, 6DI / 6DO, TPM 2.0



Features:

- NXP i.MX8M Plus (Quad core) ARM Cortex A53 + M7 CPU
- LPDDR4, 4GB / 8GB
- Independent display: 1 x HDMI®, LVDS
- 3 x GbE LAN, 2 x USB 3.0 / 2.0 (Type A), Type C USB 3.0 / 2.0 (OTG), 3 x USB 2.0 (internal)
- 2 x COM, 3 x M.2, 1 x Nano SIM, TPM 2.0
- 6DI / 6DO
- 1 x MIPI CSI-2
- 1 x CANBus
- 1 x Micro SD

Dimensions: (Unit:mm)



Specifications :

- CPU
  NXP i.MX8M Plus (Quad core) ARM Cortex A53 + M7 processor
- GPU
  Vivante GC700UL GPU
- System Memory
  LPDDR4, 4GB / 8GB
- Storage
  64GB eMMC 5.1 ; 1 x Micro SD
  1 x M.2 B key Type 2242, Support NVMe SSD
- Display
  1 x HDMI®, 1 x LVDS
- LAN
  2 x Realtek GbE 8211F
  1 x Microchip GbE LAN7800
- TPM
  Hardware TPM 2.0
- Audio (Option)
  HD Audio Line-in / Line-out / AMP
- Expansion Interface
  1 x M.2 B Key 2242 / 3042 / 3052 (USB 3.0 / 2.0)
  1 x M.2 E Key 2230 (SDIO)
  1 x M.2 B Key 2242 (PCIe x1)
  1 x Nano SIM
- USB
  2 x USB 3.0 / 2.0 (Type A), Type C USB 3.0/2.0 (OTG)
  3 x USB 2.0 (internal)
- Serial IO
  1 x RS422, 1 x RS485, 2 x I^2C
- CANBus
  1 x CANBus
- GPIO
  Hardware digital Input & Output, 6 x DI / 6 x DO
- WDT
  Hardware Watch Dog Timer, 0~255 sec programmable
- Camera Interface
  1 x MIPI CSI-2
- Power Input
  Wide Range DC IN +9~24V
- Dimension
  2.5" (115.4 x 84.5 mm) ; Weight: 92g
- Operation Temperature (100% CPU Usage)
  -40°C~70°C (100% CPU Usage, not-underclocking)
- Operation Humidity
  5~95%, non-condensing
- Chassis (OEM I/O Expansion by request)
  NET-II
- OS Support
  Yocto Scarthgap Kernel 6.6 – multimedia