



## Product Feature:

- Powered by NXP i.MX8M Plus Quad Cortex-A53
- Onboard Max. LPDDR4 8GB/eMMC 32GB
- Multiple interface connections
- Wide Temperature -20 °C ~ 70 °C
- Support RTC, TPM 2.0
- Pre-Install Linux Debian 11, Yocto kirkstone 5.15 (Optional)
- CE, FCC Certification

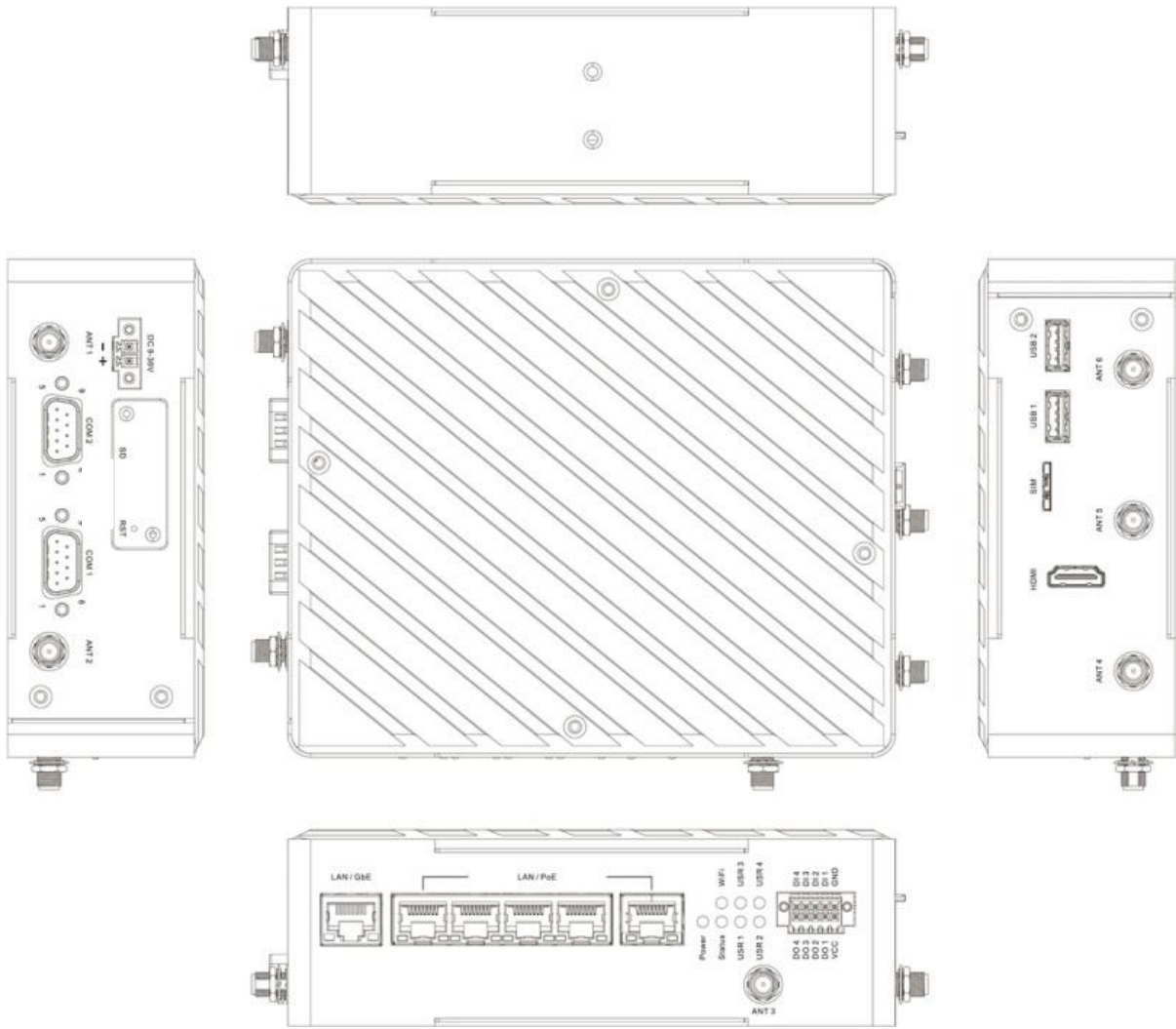
## Specifications

| System                       |                                                                           |
|------------------------------|---------------------------------------------------------------------------|
| CPU/MCU                      | NXP i.MX8M Plus, Quad-Core ARM Cortex-A53, 1.6GHz Processor               |
| Memory                       | On Board LPDDR4, 2GB/4GB/8G (model variant)                               |
| Storage                      | On Board eMMC 16GB/32GB (model variant) External Micro SD slot, Max. 32GB |
| Real time clock              | 1 x RTC, with 3V CR2032 lithium battery                                   |
| Indicators                   | 7 x LED indicator                                                         |
| Security                     | 1 x TPM 2.0                                                               |
| Cellular                     | 1x M.2 B key, USB3 signal                                                 |
| Wireless LAN                 | 1x M.2 E key, PCIe and USB2 signal                                        |
| Operating System             | Linux Debian 11, Yocto kirkstone 5.15 (Optional)                          |
| Support Protocol             | --                                                                        |
| Power Supply                 |                                                                           |
| Power Requirement            | DC 9~36V                                                                  |
| Power Consumption            | TBD                                                                       |
| MTBF (Hours)                 | --                                                                        |
| Environmental and Mechanical |                                                                           |
| Dimension                    | 6.33" x 5.19" x 2.04" (161mm x 132mm x 52mm)                              |
| Weight                       | 860g                                                                      |
| Mouting/Installation         | Din Rail, Wall Mount (Optional)                                           |
| Operating Temperature        | -4 °F ~ 158 °F (-20 °C ~ 70 °C)                                           |
| Storage Temperature          | -40 °F ~ 176 °F (-40 °C ~ 80 °C)                                          |
| Operating Humidity           | 10% ~ 95% relative humidity, non-condensing                               |
| Certification                |                                                                           |
| Regulations                  | CE, FCC                                                                   |
| Carrier                      | Planning                                                                  |

| Interface       |                                                                                                               |
|-----------------|---------------------------------------------------------------------------------------------------------------|
| Serial Port     | 2 x RS232/RS485, DB9                                                                                          |
| CAN Bus         | --                                                                                                            |
| Ethernet        | 5 x GbE LAN, RJ45<br>(IEEE 802.3af/at PoE Optional)<br>1 x GbE LAN, RJ45                                      |
| USB             | 2 x USB 3.0, Type A                                                                                           |
| DI/DO           | 4 x Digital Input, Wet contact Terminal Block<br>4 x Digital Output, Isolation open collector, Terminal Block |
| AI/AO           | --                                                                                                            |
| Display         | 1 x HDMI                                                                                                      |
| Power Connector | 1 x 2pin Terminal Block                                                                                       |
| Debug Port      | 1 x Micro USB for console                                                                                     |
| Expansion Slot  | 1 x SIM card slot<br>1 x Micro SD slot                                                                        |
| Other Interface | --                                                                                                            |

Dimension

Unit: mm / inch



Ordering Information

| Part Number                                                                                         | Packing List                                |
|-----------------------------------------------------------------------------------------------------|---------------------------------------------|
| <b>2NEC-C501-0101-01</b><br>Networking Micro Box, ARM Cortex A53, LPDDR4 2GB eMMC 16GB 12/24VDC     | 2 x Terminal Block<br>1 x DIN Mounting Kits |
| <b>2NEC-C501-0112-01</b><br>Networking Micro Box, ARM Cortex A53, LPDDR4 4GB eMMC 32GB 12/24VDC     |                                             |
| <b>2NEC-C501-0122-01</b><br>Networking Micro Box, ARM Cortex A53, LPDDR4 8GB eMMC 32GB 12/24VDC     |                                             |
| <b>2NEC-C501-0101-02</b><br>Networking Micro Box, ARM Cortex A53, LPDDR4 2GB eMMC 16GB 12/24VDC PSE |                                             |
| <b>2NEC-C501-0112-02</b><br>Networking Micro Box, ARM Cortex A53, LPDDR4 4GB eMMC 32GB 12/24VDC PSE |                                             |
| <b>2NEC-C501-0122-02</b><br>Networking Micro Box, ARM Cortex A53, LPDDR4 8GB eMMC 32GB 12/24VDC PSE |                                             |

Optional Accessories

| Part Number / Item |                         |         |             |
|--------------------|-------------------------|---------|-------------|
| 4G LTE             | M.2 card. 4G LTE Module | Antenna | Antenna GPS |
| Wi-Fi              | M.2 card. Wi-Fi Module  |         |             |