

# NEC-C501

## Industrial Edge Intelligence Vision Gateway with NXP i.MX 8M Plus Quad Cortex-A53



### Features

- Powered by NXP i.MX8M Plus Quad Cortex-A53
- Onboard max. LPDDR4 8 GB/eMMC 32 GB
- Multiple interface connections
- Wide temperature -20 ~ 70 °C
- Support RTC, TPM 2.0
- Pre-Install Linux Debian 12 (Kernel 6.6), Yocto kirkstone 5.15 (Optional)
- Seamlessly integrated with the Hailo-8 AI accelerator boasting 26 TOPS (Optional)
- CE, FCC Certification

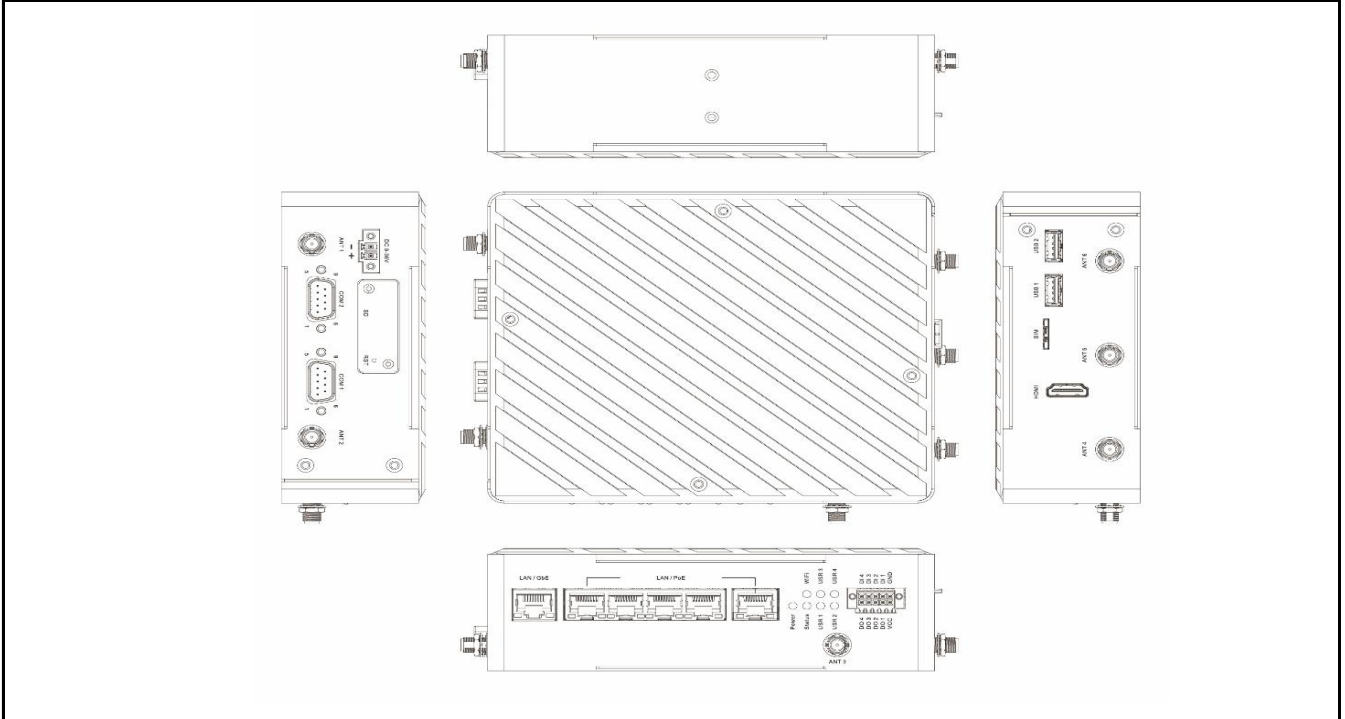
### Specifications

System	
CPU/GPU	NXP i.MX8M Plus, Quad-Core ARM Cortex-A53, 1.6 GHz Processor
Memory	On Board LPDDR 4.2GB/4GB/8G (model variant)
Storage	On Board eMMC 16 GB/32 GB (model variant) External microSD slot, max. 32 GB
Real time clock	1 x RTC, with 3V CR2032 lithium battery
Indicators	7 x LED indicator
Security	1 x TPM 2.0
Cellular	1 x M.2 3052 B-key, USB 3 signal
Wireless LAN	1 x M.2 2230 E-key, PCIe and USB2 signal
Operating System	Linux Debian 12 (Kernel 6.6), Yocto kirkstone 5.15 (Optional)
Power Supply	
Power Requirement	9 ~ 36 VDC
Power Consumption	TBD
MTBF (Hours)	--
Environmental and Mechanical	
Dimension	161 x 132 x 52mm (6.33" x 5.19" x 2.04")
Weight	0.86 kg
Mouting/Installation	Din Rail, Wall Mount (Optional)
Operating Temperature	-20 ~ 70 °C (-4 ~ 158 °F)
Storage Temperature	-40 ~ 85 °C (-40 ~ 176 °F)
Operating Humidity	10% ~ 95% relative humidity, non-condensing
Certification	
Regulations	CE, FCC
Carrier	Planning

Interface	
Serial Port	2 x RS-232/RS-485, DB9
CAN Bus	--
Ethernet	5 x GbE LAN, RJ45 (IEEE 802.3af/at PoE Optional) 1 x GbE LAN, RJ45
USB	2 x USB 3.0, Type A
DI/DO	4 x Digital Input, Wet contact Terminal Block 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 1 x microSD slot
Other Interface	--

## Dimension

Unit: mm / inch



## Ordering Information

### Packing List

- 2 x Terminal Block
- 1 x DIN Mounting Kits

### Part Number

<b>2NEC-C501-0101-01</b>	Networking Micro Box, ARM Cortex A53, LPDDR4 2 GB eMMC 16 GB 12/24 VDC
<b>2NEC-C501-0112-01</b>	Networking Micro Box, ARM Cortex A53, LPDDR4 4 GB eMMC 32 GB 12/24 VDC
<b>2NEC-C501-0122-01</b>	Networking Micro Box, ARM Cortex A53, LPDDR4 8 GB eMMC 32 GB 12/24 VDC
<b>2NEC-C501-0101-02</b>	Networking Micro Box, ARM Cortex A53, LPDDR4 2 GB eMMC 16 GB 12/24 VDC PSE
<b>2NEC-C501-0112-02</b>	Networking Micro Box, ARM Cortex A53, LPDDR4 4 GB eMMC 32 GB 12/24 VDC PSE
<b>2NEC-C501-0122-02</b>	Networking Micro Box, ARM Cortex A53, LPDDR4 8 GB eMMC 32 GB 12/24 VDC PSE

## Optional Accessories

### Part Number / Item

<b>4G LTE</b>	M.2 card, 4G LTE Module
<b>Wi-Fi</b>	M.2 card, Wi-Fi Module
<b>Antenna</b>	Antenna GPS