

NEC-C501



Features

- 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 12, Yocto kirkstone 5.15 (Optional)
- Seamlessly integrated with the Hailo-8 AI accelerator boasting 26 TOPS

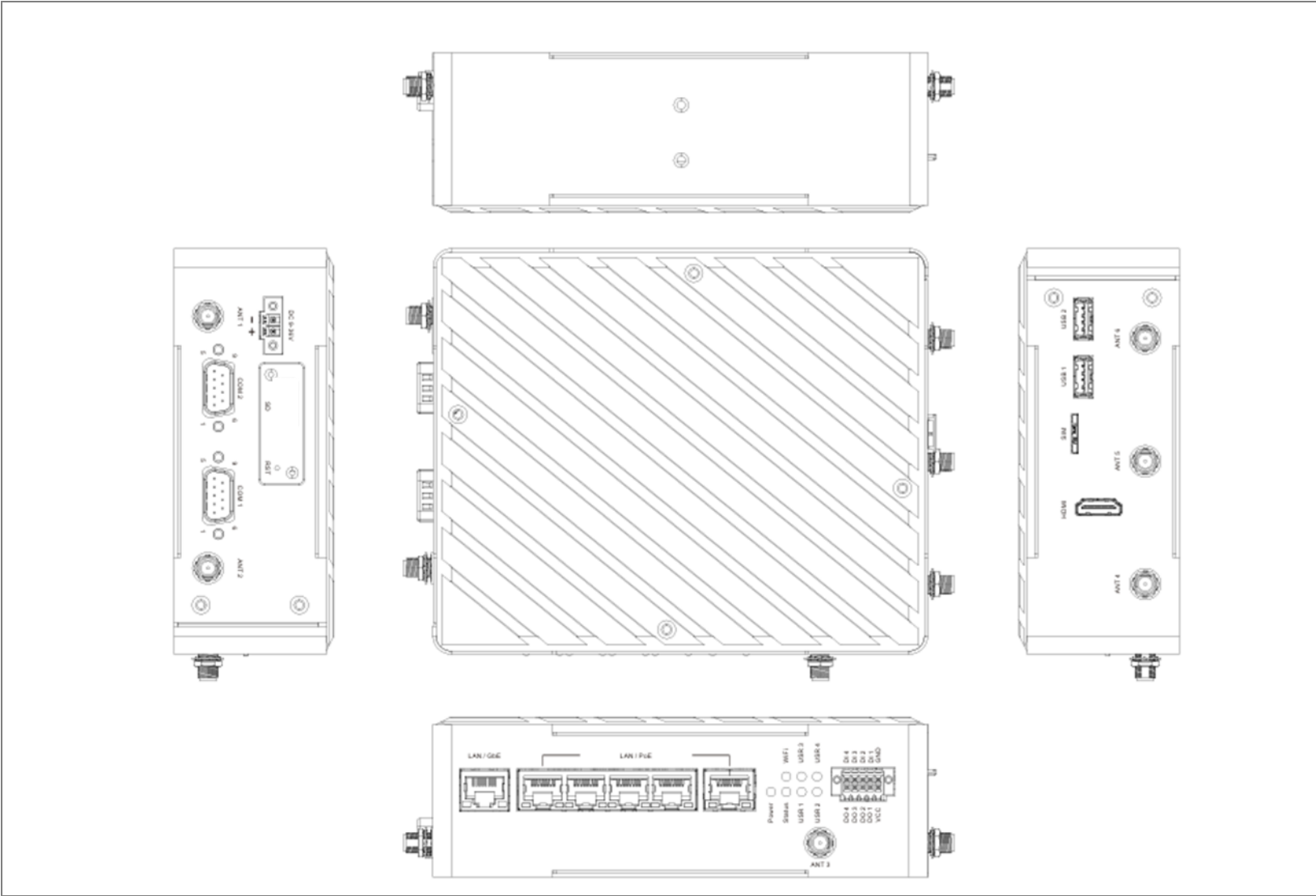
Specifications

System	
CPU/GPU	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	1x M.2 E key, PCIe and USB2 signal
Operating System	Linux Debian 12, Yocto kirkstone 5.15 (Optional)
Power Supply	
Power Requirement	DC-In 9~36V
Power Consumption	3.8W (w/o PSE)
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 (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
Expansion Slot	1 x SIM card slot 1 x Micro SD slot
Other Interface	--

Dimension

Unit: mm / inch



Ordering Information

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

Optional Accessories

Part Number / Item			
4G LTE	M.2 card. 4G LTE Module	Antenna	Antenna GPS
Wi-Fi	M.2 card. Wi-Fi Module	AI Module	Hailo-8™ AI Accelerator M.2 Module