

SIG-C302

Industrial IoT Edge Gateway with NXP i.MX 8M Plus Quad Cortex-A53/M7



Features

- NXP i.MX 8M Plus Quad Cortex-A53/M7 Processor
- Max. LPDDR4 8 GB/eMMC 32 GB
- 2 x Serial port (RS-232/485/422)
- CAN-FD x 2CH
- 2 x M.2 connector for RF Module
- Support RTC, TPM 2.0
- Pre-Install Debian 12 (Kernel 6.6)/Yocto Kirkstone (Kernel 5.15) (Optional)
- Wide temperature -20 ~ 70 °C
- Seamlessly integrated with the Hailo-8 AI accelerator boasting 26 TOPS (Optional)

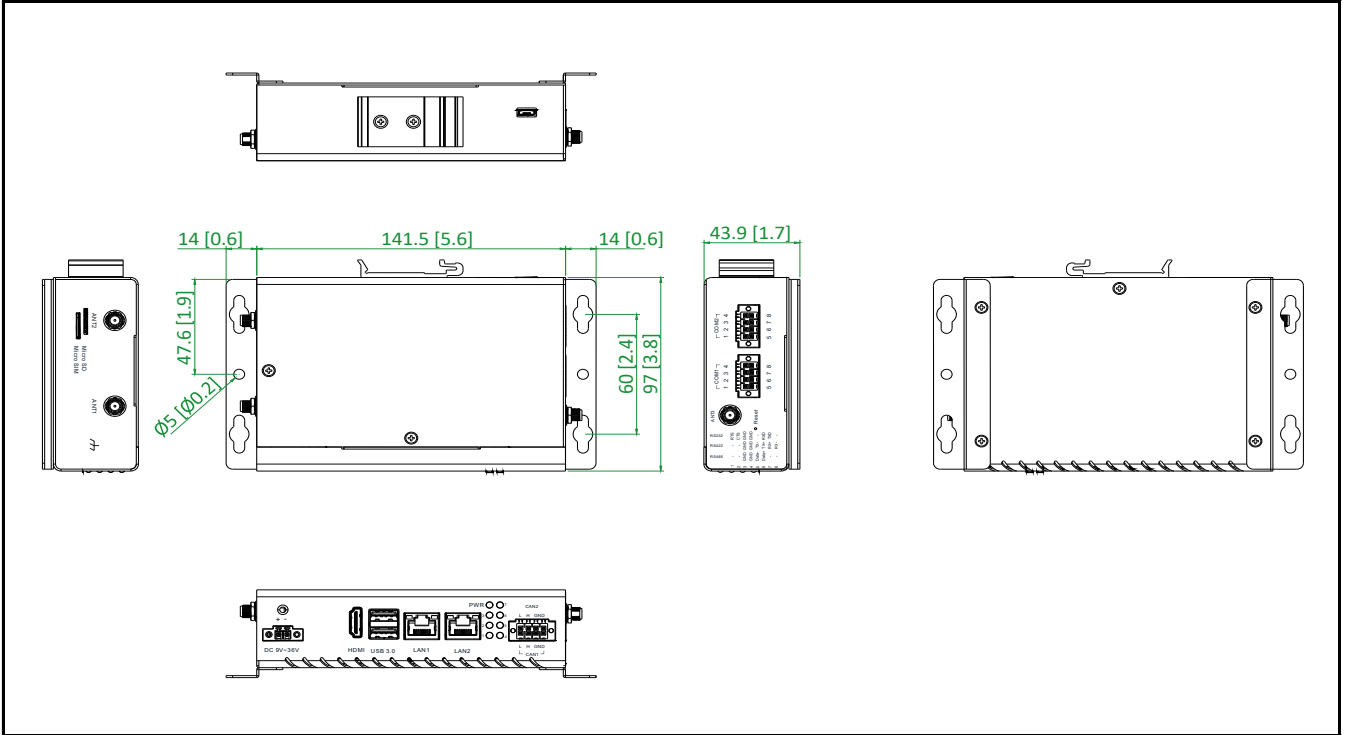
Specifications

System	
CPU/MCU	NXP i.MX 8M Plus, Quad-Core ARM Cortex-A53/M7 Processor
Memory	LPDDR4 4/8 GB (Optional)
Storage	eMMC 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 B-key
Wireless LAN	1 x M.2 E-key
Operating System	Debian 12 (Kernel 6.6)/Yocto Kirkstone (Optional)
Support Protocol	--
Power Supply	
Power Requirement	9 ~ 36 VDC
Power Consumption	9.36 W (Full Loading)
MTBF (Hours)	479,374
Environmental and Mechanical	
Dimension	140.5 x 98 x 39 mm (5.5" x 3.9" x 1.5")
Weight	0.5 kg
Mouting/Installation	Din Rail, Wall Mount (Optional)
Operating Temperature	-20 ~ 70 °C (-4 ~ 158 °F)
Storage Temperature	-40 ~ 80 °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, Phoenix Connector
CAN Bus	2CH x CAN-FD, Phoenix Connector
Ethernet	2 x GbE LAN, RJ45
USB	2 x USB 3.0, Type A
ADC	--
DI/DO	--
AI/AO	--
Display	1 x HDMI (Output)
Power Connector	1 x Terminal Block 2pin
Debug Port	1 x Micro USB
Expansion Slot	1 x SIM card slot 1 x microSD slot
Other Interface	3 x SMA for RF Module

Dimension

Unit: mm / inch



Ordering Information

Packing List

- 4 x Terminal Block
- 1 x DIN Mounting Kits

Part Number

2SIG-C302-12-01	1 x SIG-C302 LPDDR4 4 GB
2SIG-C302-22-01	1 x SIG-C302 LPDDR4 8 GB