

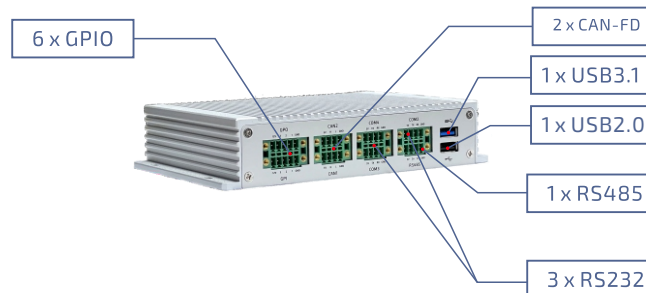
Front View



Side View



Rear View



Features

- NXP i.MX8M Plus AI-Native processor
- 4GB LPDDR4 2133Mhz on board memory
- HDMI Display
- 2 GbE LAN with RJ-45 (one supports QoS with TSN)
- 3 x USB3.1, 1 x USB 2.0 and 1 x USB client
- External microSD expansion
- 3 x Rs232, 1 x Rs485, 2 x CAN-FD and 6 GPIOs
- 12V DC Power Supply

Ordering Information

Part Number	Description
EMB-8MP-20	embedded box PC with NXP i.MX8M Plus Quad Core, 4GB LPDDR4, 0°C - 60°C
EMB-8MP-20-I	embedded box PC with NXP i.MX8M Plus Quad Core, 4GB LPDDR4, -40°C - 85°C
EMB-8MP-20-WIFI	EMB-8MP-20 with a/b/g/n/ac Wireless LAN 2T2R and Bluetooth5.3 and Antenna
EMB-8MP-20-I-WIFI	EMB-8MP-20 with a/b/g/n/ac Wireless LAN 2T2R and Bluetooth5.3 and Antenna, -30°C - 70°C
EMB-8MP-20-LTE	EMB-8MP-20 with 4G LTE and Antenna
EMB-8MP-20-I-LTE	EMB-8MP-20-I with 4G LTE and Antenna, -40°C - 80°C

Packing List

Part Number	Description	Quantity
EMB-8MP-20	embedded box PC	1
PWR-12012	12V 42W Power Adapter	1

Specifications

Dimension	177.25mm x 109.78mm x 36.35mm
CPU	NXP i.MX8M Plus quad core ARM Cortex-A53 up to 1.8GHz
Memory	<ul style="list-style-type: none"> • 16GB 5.x eMMC onboard • 4GB LPDDR4 4000MT/s on board
NPU	2.3 TOPS Neural Network performance
Display	1 x HDMI 2.0a, up to 3840 x 2160 @ 30Hz
Ethernet	2 x 10/100/1000Mbps LANs (one supports QoS with TSN)
USB	3 x USB 3.1, 2 x USB 2.0 and 1 x USB Device
Watchdog	Integrated Chipset: TI TPS3828-33DBVR
Expansion	<ul style="list-style-type: none"> • 1 x MicroSD Card Slot • 1 x NanoSIM Card Holder
CAN	2 x CAN-FD
Rs232	3 x RS232
Rs485	1 x RS485
GPIO	6 x GPIOs
Power	<ul style="list-style-type: none"> • 12 V DC by Lockable DC Jack • Power Consumption: 7.21W
Operating Systems	<ul style="list-style-type: none"> • Debian • Yocto • Android
Certification	CE/FCC Class B
Environment	<ul style="list-style-type: none"> • Operational Temperature: 0 - 60 C (Commercial) / -40 - 85 C (Industrial) • Operating Humidity: 5% - 95% Relatively Humidity, non-condensing