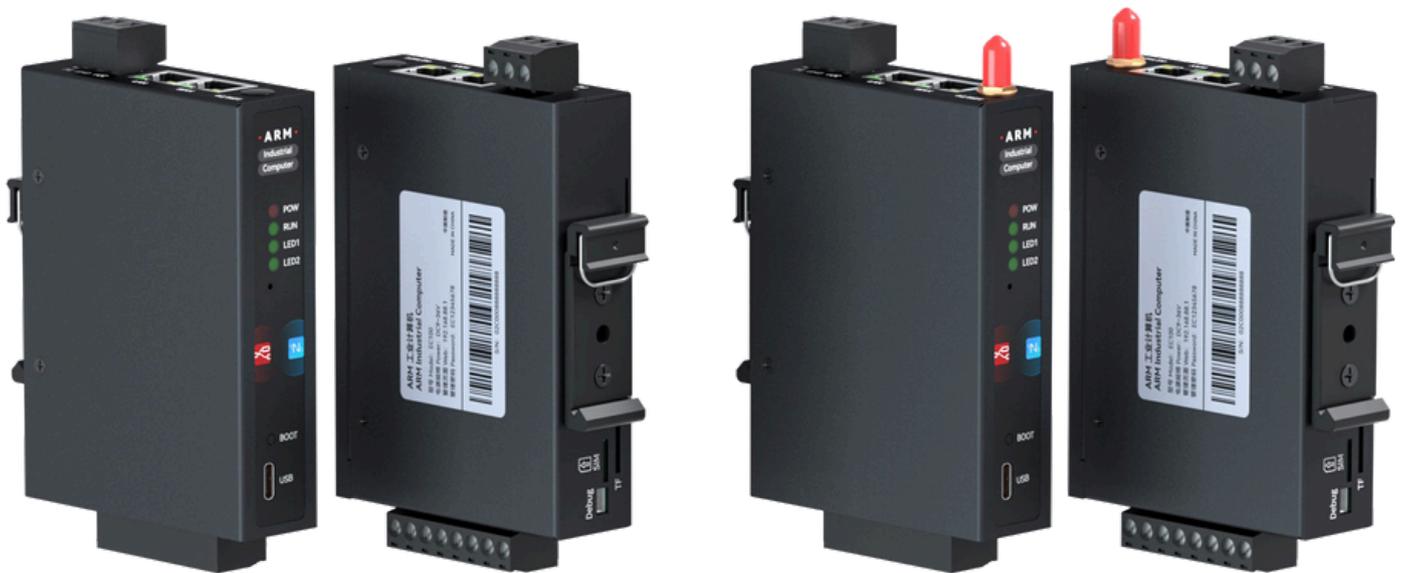




PRODUCT SPECIFICATION

EC100



Product Introduction



- Industrial Grade
- Remote O&M
- Multi-interface
- Secondary Dev
- Cost-effective

The EC series ARM industrial PC are specifically designed for harsh industrial environments, featuring industrial-grade reliability (operating temperature: -40~85°C). They integrate rich interfaces (Ethernet/RS485/CAN, etc.) and multiple networking methods (4G/5G/Wi-Fi/Ethernet). They come with free remote management software and comprehensive SDK/documentation to facilitate quick deployment and customization.

Based on an optimized Linux system, the EC series is pre-installed with **Node-RED 4.0** and **NeuronEX-Lite**. **Node-RED** enables visual drag-and-drop programming for rapid business logic building, while **NeuronEX-Lite** as lightweight edge computing software supports millisecond-level device connectivity via multi-protocol compatibility. This "Dual-N" architecture seamlessly integrates development efficiency with professional data acquisition, enhancing the reliability of industrial IoT solutions.



Product Specification

Model		EC100
Core Configuration	CPU	RK3506J 3 × Cortex-A7@1.2GHz
	RAM	512MB
	eMMC	4GB
	OS	Linux
	SD Card	Micro SD Card Socket
4G (Optional)	Module	Quectel - Cat.1 (4G)
	Supported Bands	LTE-FDD: B1/B3/B5/B8 LTE-TDD: B34/B38/B39/B40/B41
	Transmit Power	LTE-FDD: Class 3 (23 dBm ±2 dB) LTE-TDD: Class 3 (23 dBm ±2 dB)
	Bandwidth (Max rates are theoretical)	LTE-FDD: Max 10Mbps (DL) / Max 5Mbps (UL) LTE-TDD: Max 8.96Mbps (DL) / Max 3.1Mbps (UL)
Wi-Fi (Optional)	Wi-Fi HaLow	*To be developed
Ethernet Ports	WAN	1 × 10Mbps/100Mbps Auto-Negotiation
	LAN	1 × 10Mbps/100Mbps Auto-Negotiation
USB	Type-C	1 Port (Debug Interface)
RS485	Interface Quantity	2 Ports
	Connection Terminals	A, B
	Baud Rate	2400~921600bps
	Data Bits	7, 8
	Stop Bits	1, 2
	Parity	NONE (No Parity), EVEN (Even Parity), ODD (Odd Parity)
	Protection	Anti-static, Anti-surge
CAN FD	Interface Quantity	2 Ports
	Connection Terminals	H, L
	Arbitration ID Segment	
	Baud Rate	40K~1Mbps
	Data Segment Accelerated	
	Baud Rate	100K~5Mbps
	Protection	Electrical Isolation, Anti-static, Anti-surge

Product Specification

Indicator Lights	LED	4 pcs (2 user-programmable)
Electrical Parameters	Certification	CE
	Operating Voltage	9~36V
	Operating Current	75mA/12V
Environmental Parameters	Operating Temperature	-40~85°C
	Storage Temperature	-40~85°C
	Operating Humidity	0~95%RH (non-condensing)
	Storage Humidity	0~95%RH (non-condensing)
Mechanical Parameters	Dimensions	105.5×76.5×25mm
	Enclosure Material	Galvanized Steel
	Installation Method	DIN Rail
	Heat Dissipation	Passive Cooling
	Reset Button	Press & hold for 10s to reset
	Electrostatic	Air Discharge: Level 3 ±8KV
EMC	Discharge (ESD)	Contact Discharge: Level 2 ±4KV
	Surge (SURGE)	Level 2 ±1KV
	Electrical Fast Transient (EFT)	Level 2 ±1KV
	Node-RED	
Software Features	NeuronEX	Pre-installed (Node-RED 4.0)
	Web Configuration	Pre-installed (NeuronEX-Lite)
	Secondary Development	Supported
	Open System	Supported

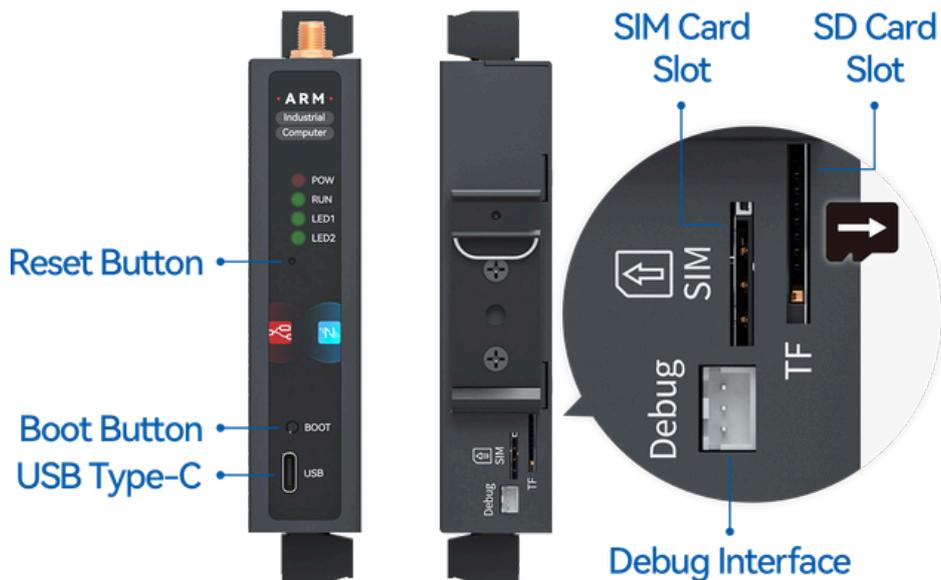
Wiring Instruction



Ethernet Ver. & 4G Ver. Interface Identification Diagram - 1



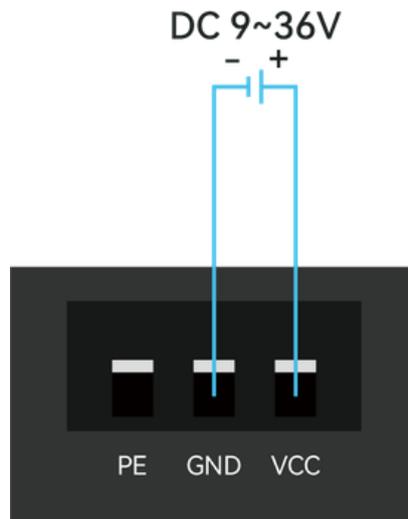
Ethernet Ver. & 4G Ver. Interface Identification Diagram - 2



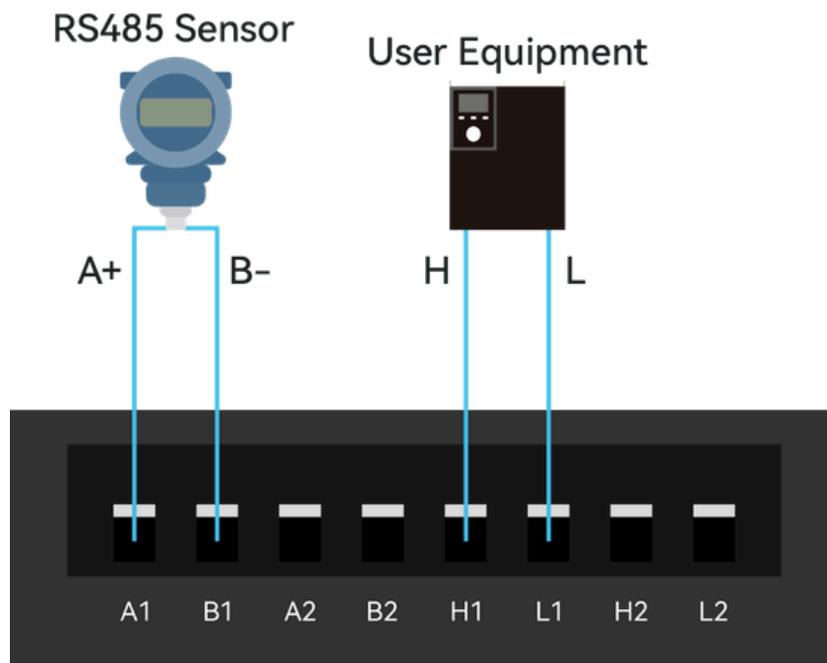
Ethernet Ver. & 4G Ver. Interface Identification Diagram - 3



Wiring Instruction



Power Supply Wiring Diagram



RS485 & CAN Wiring Diagram



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