

INDUSTRIAL PRODUCT DATASHEET

reComputer R1124-10 - Raspberry Pi IoT Gateway & Controller, CM4-Powered, AI Capable| 4GB RAM, 16GB eMMC

CM4-powered IoT gateway with 4GB RAM, 16GB eMMC, flexible wireless, and AIoT upgrade for five key areas.

SKU

113991374

UPDATED

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PRICE

\$254.00(Excl. VAT)



Overview



The reComputer R1124-10 is a CM4-powered IoT gateway and controller with 4GB RAM and 16GB eMMC, providing flexible IoT wireless communication (4G, LoRa®, Wi-Fi/BLE, Zigbee) and essential functional modules (GPS, UPS, TPM2.0, PoE, SSD). It can be upgraded to an AIoT gateway using the Raspberry Pi AI Kit for Raspberry Pi 5, targeting five key application areas.

Key Features

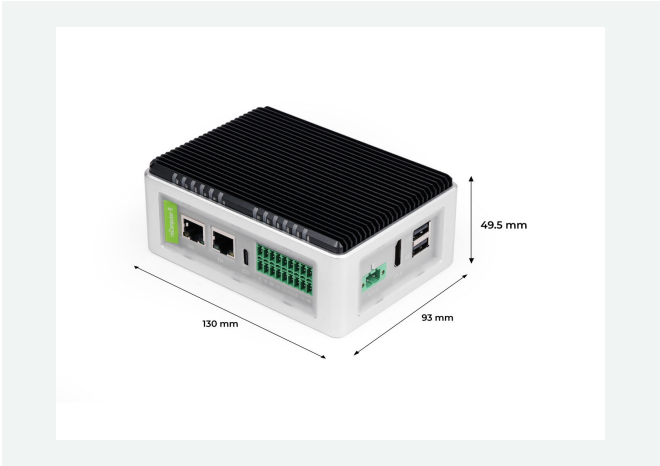
Note:

reComputer R1100 provides flexible IoT wireless communication(4G, LoRa®, Wi-Fi/BLE, Zigbee) and essential functional modules (GPS, UPS, TPM2.0, PoE, SSD, etc.).

- [Customize, Configure, and Engineer your own reComputer R1100](#)
- [Check the assembly guide](#)
- Upgrade it to an AIoT gateway [with Raspberry Pi AI Kit for Raspberry Pi 5](#)

Product Gallery





Specification

Parameter	Description	
Hardware Spec		
Product Series	R1100 Series	R1000 Series
CPU	Raspberry Pi CM4, Quad-core Cortex-A72@ 1.5GHz	
Operating System	Raspbian, Ubuntu, Debian	Raspbian, Ubuntu, Debian
RAM	1GB/2GB/4GB/8GB	
eMMC	8GB/16GB/32GB	
System Spec		
Power Input	DC 9V~36V, 2-pin Terminal Block	AC12~24V/ DC 9~36V, 2-pin Terminal Block
PoE(as powered device)	IEEE 802.3af Standard 12.95W PoE*	
Power Consumption	Idle:2.88W; Full Load:5.52W	
Power Switch	No	
Reboot Switch	Yes	
Interface		
Ethernet	1 x 10/100/1000 Mbps (Supports PoE*)	
	1 x 10/100 Mbps IEEE802.3/802.3u	
USB	2 x USB-A 2.0 Host	
	1 x USB-C 2.0 (For flashing OS)	
RS485	2x RS485(Isolated)	3x RS485(Isolated)

RS232	2x RS232(Isolated)		/
DI	2 x Isolated DI Ports	/	
	Input Voltage: 5~24V DC		
DO	2 x Isolated DO Ports	/	
	Output Voltage: <60V DC		
HDMI	1 x HDMI 2.0		
SIM Card	1x Nano SIM Card Slot (Internal)	1x Standard SIM card slot	
SD Card	1x Micro SD Card Slot	/	
SSD Card	1x M.2 NVMe SSD Slot 2280-M Key		
LED	12 x LED Indicators	6 x LED indicators	
Buzzer	1		
Reset Button	1		
Wireless Communication			
Wi-Fi 2.4/5.0 GHz	On-chip Wi-Fi		
BLE 5.0	On-chip BLE		
LoRa®*	USB LoRa®*/SPI LoRa®*		
4G Cellular*	4G LTE*		
Zigbee*	Zigbee* Module		
Standards			
EMC	ESD: EN61000-4-2, Level 3		
	EFT: EN61000-4-4, Level 2		
	Surge: EN61000-4-5, Level 2		
Certification	CE		
	FCC		
	TELEC		
	RoHS		
Ambient Conditions			
Ingress Protection	IP40		
Operating Temperature	-30~70 °C		
Operating Humidity	10~95% RH		
Storage Temperature	-40~80 °C		
Others			
Supercapacitor UPS*	SuperCAP UPS LTC3350 Module*		
Hardware Watch Dog	1~255s		
RTC	High Accuracy RTC		
Security	Encryption Chip TPM 2.0*/ATECC608A		
Heat Dissipation	Fanless		
Warranty	2 years		
Production Lifetime	Until December 2034		
Statement	Options marked with * require additional purchase according to the accessories list.		

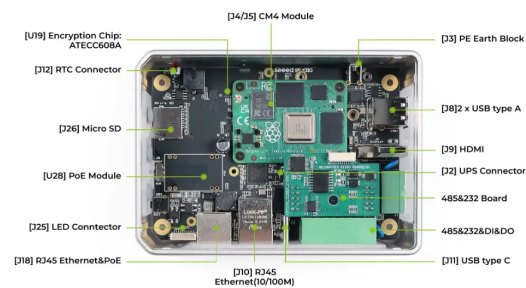
Hardware Overview



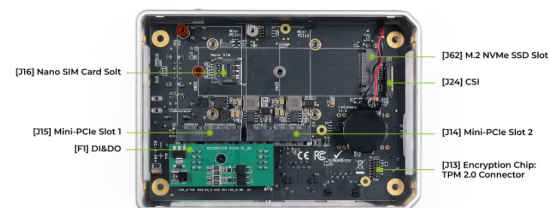
- | | | |
|---|------------------------|------------|
| ① 1000M Ethernet | ⑤ LED | ⑩ Power In |
| ② 100M Ethernet | ⑥ 3 x Reserved Antenna | ⑪ HDMI |
| ③ Serial Console | ⑦ Micro SD Card Slot | ⑫ USB Host |
| ④ 2x Isolated RS485,
2x Isolated RS232,
2x Isolated DI,
2x Isolated DO | ⑧ Boot Switch | |
| | ⑨ Reset Hole | |

Mainboard Overview

Top View



Bottom View



Applications

- The application of the reComputer R1100 spans five key areas

Part List

reComputer R1100	x1
DIN-rail clip	x1
Screw Pack	x1
DC Power Female Jack to Screw Terminal Adapter	x1
9*2-pin Terminal Block Connector (Male)	x1
120Ω Resistor	x5
User Manual	x1

Compliance & Logistics



HSCODE	8537109090
USHSCODE	8517620090
UPC	
EUHSCODE	8471707000
COO	CHINA

FCC Requirement

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

15.21

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses, and can radiate radio frequency energy.

If not installed and used in accordance with the instructions, it may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Resource Links

- <https://www.seeedstudio.com/reComputer-R1124-10-p-6257.html>
- [reComputer R1100 3D File](#)
- [reComputer R1100 Schematic Design, PCB Design](#)
- [reComputer R1100 Flyer](#)
- [User Manual](#)
- [Resource](#)

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