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INDUSTRIAL PRODUCT DATASHEET

reComputer R1225 LoRaWAN Gateway & Industrial Controller (US915), CM4-Powered | 4GB RAM, 32GB eMMC

CM4-powered reComputer R1225 LoRaWAN gateway and industrial controller with 4GB RAM and 32GB eMMC for US915.

SKU

100030154

UPDATED

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PRICE

\$349.00(Excl. VAT)



Overview



The reComputer R1225 is a CM4-powered LoRaWAN gateway and industrial controller for US915 with 4GB RAM and 32GB eMMC. It functions as a LoRaWAN gateway and industrial controller.

Key Features

Product Gallery





Specification

Parameter	Description
Hardware Spec	
Product Series	R1000
CPU	Raspberry Pi CM4, Quad-core Cortex-A72@1.5GHz
Operating System	SenseCAP Gateway OS
RAM	4GB
eMMC	32GB
System Spec	
Input	2-pin Terminal Block
PoE	IEEE 802.3af Standard 12.95W PoE
Supply Voltage(AC/DC)	12~24V AC/9~36V DC
Overvoltage Protection	40V
Power Consumption	
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	3 x 3-pin Terminal Block (isolated)
HDMI	1 x HDMI 2.0
SIM Card Slot	supports Standard SIM Card
M.2 Slot	supports M.2 NVMe SSD
LED	6 x LED indicators
Buzzer	1
Reset Button	1
Wireless Communication	
LoRa®	SPI LoRa®
Long Range Gateway Chip	SX1302
Channel	8

LoRaWAN® Protocol	V1.1.0 Class A/Class B/Class C
Frequency	902~928MHz
Frequency Plan	US915/AU915/AS923/KR920
Long Range Sensitivity	-125dBm @125KHz/SF7
	-139dBm @125KHz/SF12
Long Range TX Power	Up to 26 dBm
Antenna	Long Range: 3dBi External Antenna with Base
Wi-Fi	Support 2.4 GHz/5GHz
Antenna	Wi-Fi & BLE Antenna
4G Cellular	4G LTE*
4G Band	LTE-FDD: B2/4/5/12/13/14/66/71 WCDMA: B2/4/5
Antenna	LTE Antenna
Standards	
EMC	ESD: EN61000-4-2, Level 3
	EFT: EN61000-4-4, Level 2
	Surge: EN61000-4-5, Level 2
Certification	CE, FCC
	RoHS
Mechanical	
Dimension(W x H x D)	130 mm x 93 mm x 49.6 mm
Enclosure	6061 Aluminum Alloy Casing with Transparent PC Side Panels
Mounting	DIN-rail/Wall
Weight(Net)	R1225 : 750g ;R1225 with 4G module : 800g
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 Watchdog	1~255s
RTC	High Accuracy RTC
Security	Encryption Chip TPM 2.0*
	ATECC608A
Heat Dissipation	Fanless
Warranty	2 years
Production Lifetime	Until at leaset December 2030
Statement	Options marked with * require additional purchase according to the accessories list.

Hardware Overview

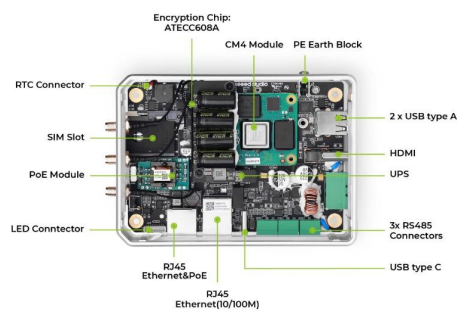
Interface Overview



- | | |
|--|---------------------|
| ① 1000M Ethernet | ⑧ LoRa Antenna Port |
| ② 100M Ethernet | ⑨ SIM Slot |
| ③ Serial Console | ⑩ Boot Switch |
| ④ 3 x isolated RS485 | ⑪ Reset Hole |
| ⑤ LED | ⑫ Power In |
| ⑥ Wi-Fi & BLE Antenna Port | ⑬ HDMI |
| ⑦ LTE Antenna Port (available for -4G version) | ⑭ USB Host |

Mainboard Overview

Top View



Bottom View



Part List

reComputer R1225 - LoRaWAN gateway	x 1
DIN-rail clip	x 1
Screw Pack	x 1
DC Power Female Jack to Screw Terminal Adapter	x 1
3-pin Terminal Block Connector(Male)	x 3
Wi-Fi & BLE Antenna	x 1
LoRa Antenna	x 1
120Ω Resistor	x 5
User Manual	x 1

Compliance & Logistics



HSCODE	8517629990
USHSCODE	8517620090
UPC	
EUHSCODE	8471707000
COO	

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-R1225-LoRaWAN-Gateway-Industrial-Controller-US915-p-6722.html>
- [reComputer R1000 3D File](#)
- [reComputer R1000 Schematic Design, PCB Design](#)
- [Trusted Raspberry Pi® Edge Device and Customized IoT solutions Provider](#)
- [Seeed Raspberry Pi-based Success Cases](#)
- [Power Consumption Table](#)

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