

reComputer R1xxx Series

reComputer R1000

[SKU 113991314](#); [SKU 113991274](#); [SKU 113991294](#); [SKU 113991295](#)

Perfect Fit for Smart Building, Energy Management, and Remote Access Control

Price from **\$169**

reComputer R1100

[SKU 113991334](#); [SKU 113991374](#); [SKU 113991375](#)

The Most Adaptable Edge IoT Gateway for The Most Diverse Industrial Landscapes

Price from **\$179**

At least 10-year lifetime

reComputer
R1000

reComputer
R1100



3x RS485

2 xRS485, 2 xRS232
2x DI, 2x DO

Features



Powerful Performance

Raspberry Pi® CM4, Quad-core A72, up to 8GB RAM and 32GB eMMC



Multiple Industrial Interfaces

RS485, RS232, Ethernet Ports, HDMI, USB2.0



Versatile Wireless Options

Support Wi-Fi, BLE, LoRaWAN®, Zigbee®, 4G LTE*



Safety and Reliability

TPM2.0/ATECC608A*, Hardware Watch Dog, Metal Enclosure, EMC Protection, PoE*, UPS*

Flexible, Affordable, and Easy to Use
Low Cost to Start PoC
Easy Scale From PoC to Production

Customizable

AI Capable

Industrial-Grade Durable

Application



Smart Building



Energy Management



Automation



Retail



Industrial Space



Security



Manufacturing

Specification

	Parameter	Description	
Hardware Spec	Product Series	R1100	R1000
	CPU	Raspberry Pi CM4, Quad-core Cortex-A72@ 1.5GHz	
	Operating System	Raspbian, Debian, Yocto, Buildroot	
	RAM	1GB/2GB/4GB/8GB	
	eMMC	8GB/16GB/32GB	
System Spec	Power Input	DC 9V~36V, 2-pin Terminal Block	AC 12~24V/ 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, REACH	
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 2030	
Statement		Options marked with * require additional purchase according to the accessories list.	

Accessories

Item		Product	Product Name	SKU
LoRa® Module	Must be used together for LoRaWAN® Function		Region optional LoRaWAN® Gateway Module(SPI)-US915	114992969
			Region optional LoRaWAN® Gateway Module(SPI)-EU868	114993268
			Region optional LoRaWAN® Gateway Module(USB)-US915	114992991
			Region optional LoRaWAN® Gateway Module(USB)-EU868	114992628
LoRa® Antenna			LoRa® Antenna Kit - 868-915 MHz	110061501
Wi-Fi/BLE Antenna	This accessory is required for WiFi function		Raspberry Pi Compute Module 4 Antenna Kit	114992364
4G Module	4G antenna with 4G module for 4G function, GPS antenna with 4G module for GPS function		LTE Cat 4 EC25-AFXGA-mini-PCIe Module - for North American	113991134
			LTE Cat 4 EC25-EUXGR-mini-PCIe Module - for EMEA and Thai	113991135
			LTE Cat 4 EC25-AUXGR-mini-PCIe Module - for Australia	113991174
			LTE Cat 4 EC25-EFA-mini-PCIe Module - for Thai	113991214
			LTE Cat 4 EC25-EMGA-mini-PCIe Module - for Malaysia	113991234
4G Antenna			4G Antenna Kit for 4G module	110061502
GPS Antenna			GPS Antenna Kit for EC25 4G Module	110061521
Encryption Chip TPM2.0			TPM2.0 Module with infineon SLB9670	114993114
SSD Card			NVMe M.2 2280 SSD 1TB	112990267
			512GB NVMe M.2 PCIe Gen3x4 2280 Internal SSD	112990247
			256GB NVMe M.2 PCIe Gen3x4 2280 Internal SSD	112990246
			128GB NVMe M.2 PCIe Gen3x4 2280 Internal SSD	112990226
PoE	This module needs to be soldered onto the carrier board of the reComputer R1000		MQ7813T120 PoE Module Kit for reTerminal DM	110991925
Power Adapter			Power Adapter-American	110061505
			Power Adapter-European	110061506

*Items listed are sold separately. For detailed information and pricing on available accessories, please consult edge@seeed.cc

We Could be Your Reliable Raspberry Pi® ODM Partner

Customize reComputer R1xxx Series as you wish!



Customize Logo



Flash Firmware



Branding and Labeling



Certifications



Add/Remove Functional Modules



Modify I/O Ports



Design Enclosure



More



Custom Design Inquiry:

edge@seed.cc



Reference Design

Software

For Automation & IoT System



CODESYS



balena



Node-RED

N3uron



Grafana



FIN Framework

Communication Protocols

OPC UA

MQTT

LoRa

Modbus

BACnet

Cloud Solutions



Computer Vision

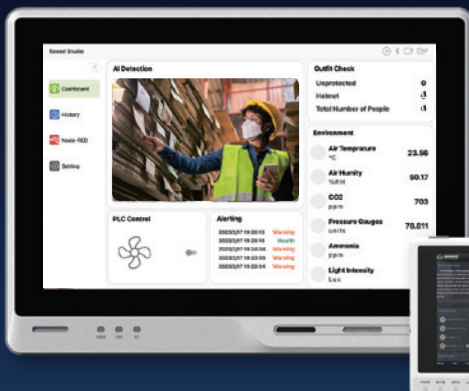
SenseCraft



ultralytics

More Raspberry Pi®-powered Edge IoT Devices

HMI



reTerminal DM

10.1" Integrated Device Master

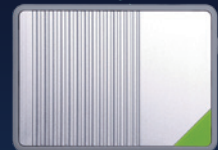
reTerminal

5-inch Ready-to-go;
Integrated with 5-inch IPS multitouch screen, dual-band Wi-Fi & Bluetooth



reRouter

Raspberry Pi® Based Mini Router,
Travel Router, Dual Gigabit Ethernet, OpenWRT OS



Raspberry Pi®
Product Catalog

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Seed with
Raspberry Pi®