

# USR-LG220 Datasheet

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## 1. Product overview

USR-LG220 is concentrator based on low-power consumption and WAN LoRa private protocol. LG220 can realize networking between concentrator and LoRa module, communication between concentrator and server by USR private protocol.

USR-LG220 supports one wired WAN interface, WiFi interface and 4G interface to realize various networking method. LoRa private protocol can make communication more simple, more secure and more reliable. User can realize communication by configuring concentrator and LoRa module without caring about protocol.

## 2. Product features

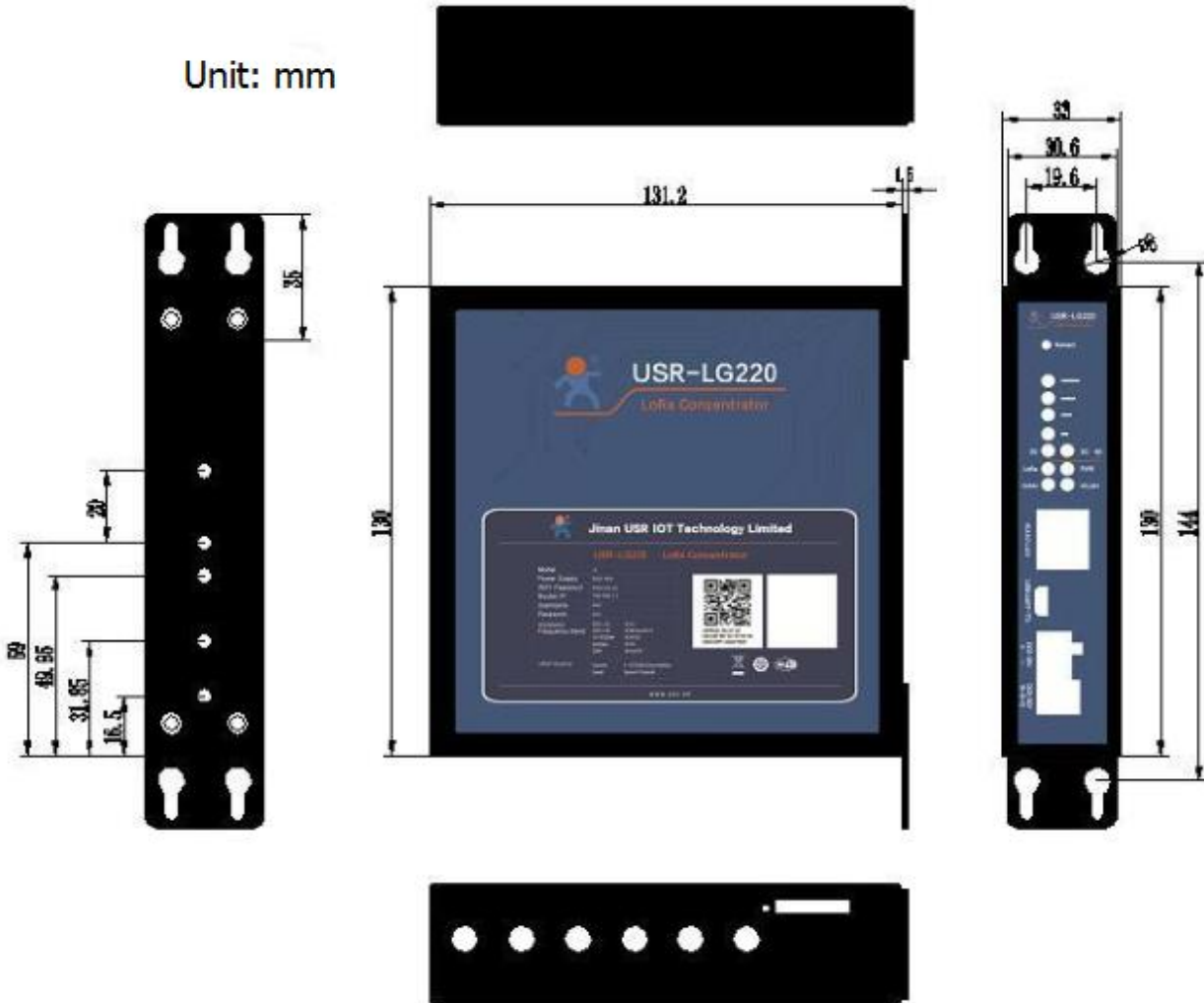
- Adopt LoRa private protocol. Simple, safe and reliable.
- Smart Ad-Hoc Network.
- Adopt TDM technology which has low interference.,
- Support WAN interface and SIM card slot to provide various networking method.
- Support WiFi interface.
- Support VPN(PPTP/L2TP), PPPOE, DHCP and static IP.
- Support various LED.
- Reload button: Support resetting to default settings by hardware.
- Support MQTT/socket server connection.
- Support long-distance transmission and transmission distance can reach 2000 meters.

## 3. Product specifications

Item		Description
Product name	USR-LG220	LoRa concentrator
Ethernet interface	Wired WAN interface	Support one wired WAN interface
WiFi parameters	Standard	802.11b/g/n
	Antenna	WiFi antenna
	Distance	120m in open area
Four LoRa channels: One administration channel and three communication channels	Protocol	USR private protocol.
	Frequency band	-L: 398~525MHz; -H: 803~930MHz. Divided into 127 channel
	Transmitting power	Maximum transmitting power 20dBm
	Antenna	470~510Mhz antenna
4G parameters	SIM/USIM card	Standard six pin SIM card slot and support 3V/1.8V SIM card
	Antenna	5dbi stick antenna
Button	Reload	Reset to default settings
LED	Status LED	Power, WiFi, 2G/3G/4G, WAN interface, TX/RX
Temperature	Working temperature	-20°C ~ +70°C
	Storage temperature	-40°C ~ +75°C
Humidity	Working humidity	5%~95%RH
	Storage humidity	1%~95%RH

Power supply	Voltage	DC 5~36V(Standard: 12V/1A)
	Power consumption	5V/0.6A, 12V/0.3A, 36V/0.07A

## 4.Product dimensions



## 5.Contact Us

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## 7.Update History

2018-03-23 V1.0.0 established.