



Introduction

USR-LG280 is a robust 8-channel outdoor LoRaWAN® gateway. Adopting SX1302 LoRa chip and high-performance quad-core CPU, LG280 supports connection with more than 2000 nodes. LG280 has line of sight up to 15 km and can cover about 2km in urbanized environment, which is ideally suited to smart office, smart building and many other outdoor applications.

LG280 supports not only multiple back-haul backups with Ethernet, Wi-Fi and cellular, but also has integrated mainstream network servers (such as The Things Industries, ChirpStack, etc.) and built-in network server for easy deployment.

Product Features

Benefits

- Built-in industrial CPU and big memory
- Ethernet, 2.4GHz Wi-Fi and global 2G/3G/LTE options make it easy to get connected
- Embedded network server and compliant with several third party network servers
- MQTT(s) or HTTP(s) protocol for data transmission to application server
- Rugged enclosure, optimized for wall or pole mounting

Security & Reliability

- Automated failover/failback between Ethernet and Cellular
- Enable unit with security frameworks like IPsec/OpenVPN/GRE/L2TP/PPTP/ DMVPN
- Embedded hardware watchdog to automatically recover from various failure and ensure highest level of availability

Easy Maintenance

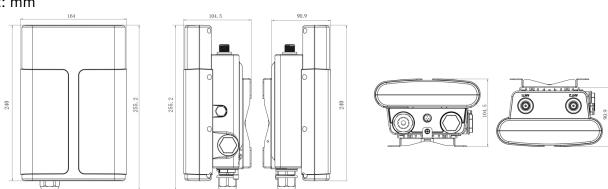
- Milesight DeviceHub provides easy setup, mass configuration, and centralized management of remote devices
- The user-friendly web interface design and various upgrading options help administrator to manage the device as easy as pie
- WEB GUI and CLI enable the admin to achieve quick configuration and simple management among a large quantity of devices
- Users can efficiently manage the remote devices on the existing platform through the industrial standard SNMP

Capabilities

- Link remote devices in an environment where communication technologies are constantly changing
- Industrial quad core 64-bit ARM Cortex-A53 processor, high-performance operating up to 1.5GHz with low power consumption, and 8GB eMMC available to support more applications
- Support wide operating temperature ranging from -40°C to 70°C

Dimensions

Unit: mm



Specifications

Items	Description	Description	
Processor	Quad-core 1.5GHz, 64-bit ARM Cortex-A53		
Power Supply	1 × 802.3 af PoE Input,		
	12 VDC with M12 Connector		
Working Current	Typical 3.6W, Max 4.8W		
LoRaWAN			
Radio Chip	SX1302		
	AU915: (902-928MHZ)	EU868: (868-873MHz)	
	FDD:B1/B2/B3/B4/B5/B7/B8/B28	FDD: B1/B3/B7/B8/B20/B28A	
Frequency	TDD:B40	TDD: B38/B40/B41	
	WCDMA:B1/B2/B4/B5/B8	WCDMA:B1/B8	
	GSM/EDGE:B2/B3/B5/B8	GSM/EDGE:B3/B8	
Tx Power	27dBm Max		
Rx Sensitivity	-140dBm @292bps		
Protocol	V1.0 Class A/Class B/Class C and V1.0.2 Class A/Class B/Class C		
Antenna	2×50 Ω N-Female External Connectors, fiber antenna		
Ethernet			
Ports	1*10/100/1000Mbps RJ45(PoE PD supported),		
	auto MDI/MDIX, full or half duplex (auto-sensing)		
WiFi			
Standard	IEEE 802.11 b/g/n, 2.4 GHz		
Antenna	Fully Integrated and Internal Antenna		
Tx Power	802.11b: 18 dBm +/-2.0 dBm (11 Mbps)		
	802.11g: 15 dBm +/-2.0 dBm (6 Mbps)		
	802.11g: 15 dBm +/-2.0 dBm (54 Mbps)		
	802.11n@2.4 GHz: 14 dBm +/-2.0 dBm (MCS0_HT20)		
	802.11n@2.4 GHz: 14 dBm +/-2.0 dBm (MCS7_HT20)		
	802.11n@2.4 GHz: 13 dBm +/-2.0 dBm (MCS0_HT40)		
	802.11n@2.4 GHz: 13 dBm +/-2.0 dBm (MCS7_HT40)		
Cellular			
Antenna	Internal Antenna		
SIM Slot	1*mini-SIM(2FF)		
GPS			
Antenna	Internal Antenna		
Sensitivity	-167dBm@Tracking, -149dBm@Acquisition, -161dBm@Re-acquisition		

Position Accuracy	<2.5m CEP	
Physical Property		
Casing material	PC+Aluminium ADC12, IP67 protection	
Dimensions	240 x 164 x 90.9 mm	
Weight	1671.7g	
Installation	Wall or Pole Mounting	
Operating temperature	-40°C to +70°C	
Storage temperature	-40°C to +85°C	
Operating humidity	0% to 95% (non-condensing)	
Software Function		
Network Protocols	PPPoE, SNMP v1/v2c/v3, TCP, UDP, DHCP, DDNS, HTTP, HTTPS, DNS, SNTP,	
	Telnet, SSH, MQTT, MQTTS, BACnet/IP, etc.	
VPN Tunnel	DMVPN/IPsec/OpenVPN/PPTP/L2TP/GRE	
Firewall	ACL/DMZ/Port Mapping/MAC Binding	
Management	Web, CLI, SMS, On-demand dial up, DeviceHub	
APPROVALS		
Regulatory	RCM	

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