

Indoor Gateway

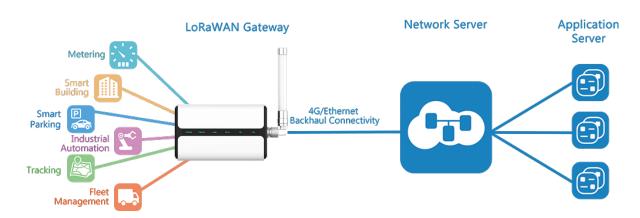
MPC5128-SN



MPC5118-SN is a robust 8-channel indoor LoRaWAN[®] gateway. Adopting SX1302 LoRa chip and high-performance quad-core CPU, UG65 supports connection with more than 2000 nodes. MPC5118-SN has line of sight up to 15 km and can cover about 2 km in urbanized environment, which is ideally suited to smart office, smart building and many other indoor applications.

MPC5118-SN supports not only multiple back-haul backups with Ethernet, Wi-Fi and cellular, but also has integrated mainstream network servers (such as TTI, ChirpStack, etc.) and built-in network server and MobiCom Pro IoT Cloud for easy deployment.

Application Example



Features

- Quad-core industrial processor with big memory
- Equip with SX1302 chip, handling a higher amount of traffic with lower consumption
- 8 half/full-duplex channels
- IP65 enclosure and industrial design for parts of outdoor environment applications like eaves
- Desktop, wall or pole mounting
- Multi backhaul backups with Ethernet, cellular (4G/3G) and Wi-Fi
- DeviceHub and MobiCom Pro IoT Cloud provide easy and centralized management of remote devices

- Enable security communication with multiple
 VPNs like IPsec/OpenVPN/L2TP/PPTP/DMVPN
- Compatible with mainstream network servers like The Things Industries, ChirpStack, Actility, Everynet, etc.
- Detect and analyze the noise level and provide intuitive diagram for deployment
- Built-in network server and MQTT/HTTP/HTTPS
 API for easily integration
- Embedded Python SDK for users secondary development
- Fast and user-friendly programming by Node-RED development tool

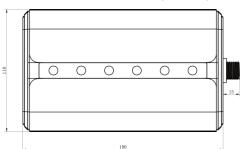
Specifications

Hardware System	
CPU	Quad-core 1.5 GHz, 64-bit ARM Cortex-A53
Memory	512 MB DDR4 RAM
Flash	8 GB eMMC
LoRaWAN®	
Antenna	$2 \times$ Internal Antennas (Optional: $1 \times 50 \Omega$ N-Female External Connector)
Channel	8 (Half/Full-duplex)
Frequency Band	CN470/IN865/EU868/RU864/US915/AU915/KR920/AS923-1&2&3&4
Sensitivity	-140dBm Sensitivity @292bps
Output Power	27dBm Max
Protocol	V1.0 Class A/Class B/Class C and V1.0.2 Class A/Class B/Class C
Ethernet Interface	
Port	1 × RJ45 (PoE PD supported)
Physical Layer	10/100/1000 Base-T (IEEE 802.3)
Data Rate	10/100/1000 Mbps (Auto-Sensing)
Interface	Auto MDI/MDIX
Mode	Full or Half Duplex (Auto-Sensing)
Wi-Fi Interface	

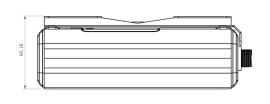
Antenna	Internal Antenna	
Standards	IEEE 802.11 b/g/n, 2.4GHz	
Mode	AP or Client mode	
Security	WPA/WPA2 authentication, WEP/TKIP/AES encryption	
Tx Power	802.11b: 18 dBm +/-2.0 dBm (11 Mbps)	
	802.11g: 15 dBm +/-2.0 dBm (6 Mbps)	
	802.11g: 15 dBm +/-2.0 dBm (54 Mbps)	
	802.11n@2.4 GHz: 14 dBm +/-2.0 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 Interface (Optional)		
Antenna	Internal Antenna	
SIM Slot	1 (mini SIM-2FF)	
Others		
Reset Button	1 × RST	
Console Port	1 × Type-C	
LED Indicators	1 × POWER, 1 × STATUS, 1 × LoRa, 1 × Wi-Fi, 1 × LTE, 1 × ETH	
Built-in	Watchdog, RTC, Timer	
Software		
Naturals Dratagala	PPPoE, SNMP v1/v2c/v3, TCP, UDP, DHCP, DDNS, HTTP, HTTPS, DNS, ARP,	
Network Protocols	SNTP, Telnet, SSH, MQTT, etc.	
VPN Tunnel	OpenVPN/IPsec/PPTP/L2TP/GRE/DMVPN	
Firewall	ACL/DMZ/Port Mapping/MAC Binding/URL Filter	
Management	Web, CLI, SMS, On-demand dial up, DeviceHub, MobiCom Pro IoT Cloud,	
	Yeastar Workplace Platform	
Reliability	WAN Failover	
App	Python SDK, Node-RED	
Power Supply and Consumption		
Power Input	1. 9-24 VDC by DC Male Jack Connector	
	2. 1 × 802.3 af PoE input	
Power Consumption	Typical 2.9 W, Max 4.2 W	
Physical Characteristics		
Ingress Protection	IP65	
Dimensions	180 x 110 x 56.5 mm (7.09 x 4.33 x 2.22 in)	

Installation	Desktop, Wall or Pole Mounting
Environmental	
Operating	-40°C to +70°C (-40°F to +158°F)
Temperature	Reduced Cellular Performance Above 60°C
Storage Temperature	-40°C to +85°C (-40°F to +185°F)
Ethernet Isolation	1.5 kV RMS
Relative Humidity	0% to 95% (non-condensing) at 25°C/77°F
Approvals	
Regulatory	CE, FCC, IC
Environmental	RoHS, REACH

◆ Dimensions(mm)



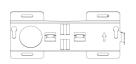




Accessories



1 × DC Jack Power Adapter



1 × Mounting Bracket



2 × Bracket Fixing Screws



4 × Wall Mounting Kits



1 × 18 cm LoRaWAN[®]
Antenna (External antenna version included)



1 × 60cm LoRaWAN[®]
Fiber-Glass Antenna Kit
(Optional)

*Note: Contact us if you need any other special accessories or customized accessories.

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