

8-channel indoor LoRaWAN® gateway

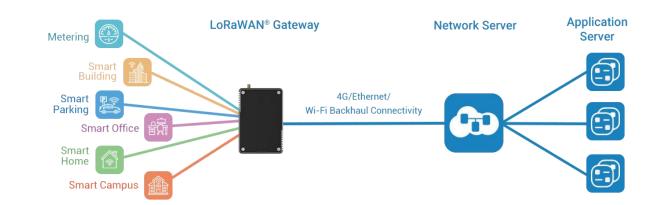


Application Example

MPC6087-SN

MC6087-SN is a robust 8-channel indoor LoRaWAN[®] gateway. Adopting SX1302 chip and high-performance quad-core CPU, MC6087-SN supports connection with more than 2000 nodes. MC6087-SN has line of sight up to 15 km and can cover about 2 km in urbanized environment, which is ideally suited to smart building, smart industries and many other indoor applications.

MC6087-SN supports not only multiple back-haul backups with Ethernet, Wi-Fi and cellular, but also has integrated mainstream network servers (such as The Things Stack, ChirpStack, etc.), built-in network server and MobiCom Pro Development Platform for easy deployment.



Features

- Quad-core industrial processor with big memory
- Equip with SX1302 chip, handling a higher amount of traffic with lower consumption
- 8 half-duplex channels
- Rugged metal enclosure for industrial applications
- Desktop, wall or DIN rail mounting
- Multi backhaul connectivity backups with Ethernet, cellular (4G/3G) and Wi-Fi
- DeviceHub, Milesight Development Platform and Milesight 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 Stack, 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
- Support BACnet/IP and Modbus to integrate LoRaWAN[®] data to BMS/PLC system easily
- Embedded Python SDK for users secondary development
- Fast and user-friendly programming by Node-RED development tool

Hardware System	
CPU	Quad-core 1.3 GHz, 64-bit ARM Cortex-A35
Memory	512 MB DDR3 RAM
Flash	8 GB eMMC
Extendable Storage	1 × Micro SD Slot (Internal)
LoRaWAN	
Antenna Connector	1 × 50 Ω SMA Connector (Center PIN: SMA Female)
Channel	8 (Half-duplex)
Frequency Band	CN470/IN865/EU868/RU864/US915/AU915/KR920/AS923-1&2&3&4
Sensitivity	-140 dBm Sensitivity @292bps
Output Power	27 dBm Max
Protocol	V1.0 Class A/Class B/Class C and V1.0.2 Class A/Class B/Class C
LBT ¹	Support
Ethernet Interface	

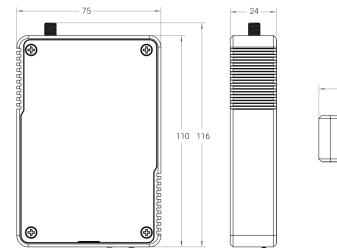
Specifications

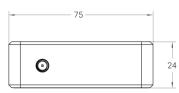
¹ AU915 and US915 do not support LBT.

Physical Layer10/100 Base-T (IEEE 802.3)Data Rate10/100 Mbps (Auto-Sensing)InterfaceAuto MDI/MDIXModeFull or Half Duplex (Auto-Sensing)Wi-FI InterfaceInternal AntennaStandardsIEEE 802.11b/g/n, 2.4 GHzModeAP or Client modeSecurityWPA/WPA2 authentication, WEP/TKIP/AES encryption802.11b: 18 dBm +/-2.0 dBm (11 Mbps)802.11g: 15 dBm +/-2.0 dBm (54 Mbps)802.11m@2.4 GHz: 14 dBm +/-2.0 dBm (MCS0_HT20)802.11m@2.4 GHz: 13 dBm +/-2.0 dBm (MCS0_HT20)802.11m@2.4 GHz: 13 dBm +/-2.0 dBm (MCS0_HT40)802.11m@2.4 GHz: 13 dBm +/-2.0 dBm (MCS0_HT40)803.11m@2.4 GHz: 13 dBm +/-2.0 dBm (MCS0_HT40)804.10m_STM2_STM_STM_STM_STM_STM_STM_STM_STM_STM_STM	Port	1 × RJ45 WAN Port (PoE PD supported)
InterfaceAuto MDI/MDIXModeFull or Half Duplex (Auto-Sensing)Wi-Fi InterfaceAntennaInternal AntennaStandardsIEEE 802.11b/g/n, 2.4 GHzModeAP or Client modeSecurityWPA/WPA2 authentication, WEP/TKIP/AES encryption802.11b: 18 dBm +/-2.0 dBm (11 Mbps)802.11g: 15 dBm +/-2.0 dBm (6 Mbps)802.11g: 15 dBm +/-2.0 dBm (6 Mbps)802.11g: 15 dBm +/-2.0 dBm (MCS0_HT20)802.11n@2.4 GHz: 14 dBm +/-2.0 dBm (MCS0_HT20)802.11n@2.4 GHz: 13 dBm +/-2.0 dBm (MCS0_HT40)802.11n@2.4 GHz: 13 dBm +/-2.0 dBm (MCS0_HT40)802.11n@2.4 GHz: 13 dBm +/-2.0 dBm (MCS7_HT20)802.11n@2.4 GHz: 13 dBm +/-2.0 dBm (MCS7_HT40)Cellular Interface (Optional)Antenna Connector1 × 50 0 SMA Connector (Center PIN: SMA Female)SIM Slot1 (Mini SIM-2FF)OthersReset Button1 × RST (Internal)Console Port1 × Type-CLED Indicators1 × SYSTEM, 1 × LoRaBuilt-inWatchdog, TimerSoftwarePPPoE, SNMP v1/v2c/v3, TCP, UDP, DHCP, DDNS, HTTP, HTTPS, DNS,Network ProtocolsARP, SNTP, Telnet, SSH, MQTT, MQTTS, BACnet/IP, Modbus RTU over TCP, Modbus TCP, etc.VPN TunnelOpenVPN/IPsec/PPTP/L2TP/GRE/DMVPN/WireGuardFirewallACL/DMZ/Port Mapping/MAC Binding/URL FilterManagementWeb, CLI, SMS, On-demand dial up, DeviceHub, MobiCom Pro IoT Cloud, MobiCom Pro Development PlatformReliabilityWAN Failover	Physical Layer	10/100 Base-T (IEEE 802.3)
ModeFull or Half Duplex (Auto-Sensing)Wi-Fi InterfaceAntennaInternal AntennaStandardsIEEE 802.11b/g/n, 2.4 GHzModeAP or Client modeSecurityWPA/WPA2 authentication, WEP/TKIP/AES encryption802.11b: 18 dBm +/-2.0 dBm (11 Mbps)802.11g: 15 dBm +/-2.0 dBm (14 Mbps)802.11g: 15 dBm +/-2.0 dBm (6 Mbps)802.11g: 15 dBm +/-2.0 dBm (MCS0_HT20)802.11n@2.4 GHz: 14 dBm +/-2.0 dBm (MCS0_HT20)802.11n@2.4 GHz: 13 dBm +/-2.0 dBm (MCS0_HT40)802.11n@2.4 GHz: 13 dBm +/-2.0 dBm (MCS0_HT40)803.11n@2.4 GHz: 13 dBm +/-2.0 dBm (MCS0_HT40)804.11n1 (Mini SIM-2FF)0 (DthersReset Button1 × ST9TEM, 1 × LoRa8018011	Data Rate	10/100 Mbps (Auto-Sensing)
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802.11g: 15 dBm +/-2.0 dBm (6 Mbps)802.11g: 15 dBm +/-2.0 dBm (54 Mbps)Tx Power802.11n@2.4 GHz: 14 dBm +/-2.0 dBm (MCS0_HT20) 802.11n@2.4 GHz: 13 dBm +/-2.0 dBm (MCS0_HT40) 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 (>tional)Antenna Connector1 × 50 Ω SMA Connector (Center PIN: SMA Female)SIM Slot1 (Mini SIM-2FF)OthersReset Button1 × RST (Internal)Console Port1 × Type-CLED Indicators1 × SYSTEM, 1 × LoRaBuilt-inWatchdog, TimerSoftwarePPPoE, SNMP v1/v2c/v3, TCP, UDP, DHCP, DDNS, HTTP, HTTPS, DNS, ARP, SNTP, Telnet, SSH, MQTT, MQTTS, BACnet/IP, Modbus RTU over TCP, Modbus TCP, etc.VPN TunnelOpenVPN/IPsec/PPTP/L2TP/GRE/DMVPN/WireGuardFirewallACL/DMZ/Port Mapping/MAC Binding/URL FilterManagementWeb, CLI, SMS, On-demand dial up, DeviceHub, MobiCom Pro IoT Cloud, MobiCom Pro Development Platform	Security	WPA/WPA2 authentication, WEP/TKIP/AES encryption
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Console Port1 × Type-CLED Indicators1 × SYSTEM, 1 × LoRaBuilt-inWatchdog, TimerSoftwarePPPoE, SNMP v1/v2c/v3, TCP, UDP, DHCP, DDNS, HTTP, HTTPS, DNS, ARP, SNTP, Telnet, SSH, MQTT, MQTTS, BACnet/IP, Modbus RTU over TCP, Modbus TCP, etc.VPN TunnelOpenVPN/IPsec/PPTP/L2TP/GRE/DMVPN/WireGuardFirewallACL/DMZ/Port Mapping/MAC Binding/URL FilterManagementWeb, CLI, SMS, On-demand dial up, DeviceHub, MobiCom Pro IoT Cloud, MobiCom Pro Development PlatformReliabilityWAN Failover	Others	
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Built-inWatchdog, TimerSoftwarePPPoE, SNMP v1/v2c/v3, TCP, UDP, DHCP, DDNS, HTTP, HTTPS, DNS, ARP, SNTP, Telnet, SSH, MQTT, MQTTS, BACnet/IP, Modbus RTU over TCP, Modbus TCP, etc.VPN TunnelOpenVPN/IPsec/PPTP/L2TP/GRE/DMVPN/WireGuardFirewallACL/DMZ/Port Mapping/MAC Binding/URL FilterManagementWeb, CLI, SMS, On-demand dial up, DeviceHub, MobiCom Pro IoT Cloud, MobiCom Pro Development PlatformReliabilityWAN Failover	Console Port	1 × Type-C
SoftwareNetwork ProtocolsPPPoE, SNMP v1/v2c/v3, TCP, UDP, DHCP, DDNS, HTTP, HTTPS, DNS, ARP, SNTP, Telnet, SSH, MQTT, MQTTS, BACnet/IP, Modbus RTU over TCP, Modbus TCP, etc.VPN TunnelOpenVPN/IPsec/PPTP/L2TP/GRE/DMVPN/WireGuardFirewallACL/DMZ/Port Mapping/MAC Binding/URL FilterManagementWeb, CLI, SMS, On-demand dial up, DeviceHub, MobiCom Pro IoT Cloud, MobiCom Pro Development PlatformReliabilityWAN Failover	LED Indicators	1 × SYSTEM, 1 × LoRa
Network ProtocolsPPPoE, SNMP v1/v2c/v3, TCP, UDP, DHCP, DDNS, HTTP, HTTPS, DNS, ARP, SNTP, Telnet, SSH, MQTT, MQTTS, BACnet/IP, Modbus RTU over TCP, Modbus TCP, etc.VPN TunnelOpenVPN/IPsec/PPTP/L2TP/GRE/DMVPN/WireGuardFirewallACL/DMZ/Port Mapping/MAC Binding/URL FilterManagementWeb, CLI, SMS, On-demand dial up, DeviceHub, MobiCom Pro IoT Cloud, MobiCom Pro Development PlatformReliabilityWAN Failover	Built-in	Watchdog, Timer
Network ProtocolsARP, SNTP, Telnet, SSH, MQTT, MQTTS, BACnet/IP, Modbus RTU over TCP, Modbus TCP, etc.VPN TunnelOpenVPN/IPsec/PPTP/L2TP/GRE/DMVPN/WireGuardFirewallACL/DMZ/Port Mapping/MAC Binding/URL FilterManagementWeb, CLI, SMS, On-demand dial up, DeviceHub, MobiCom Pro IoT Cloud, MobiCom Pro Development PlatformReliabilityWAN Failover	Software	
TCP, Modbus TCP, etc.VPN TunnelOpenVPN/IPsec/PPTP/L2TP/GRE/DMVPN/WireGuardFirewallACL/DMZ/Port Mapping/MAC Binding/URL FilterManagementWeb, CLI, SMS, On-demand dial up, DeviceHub, MobiCom Pro IoT Cloud, MobiCom Pro Development PlatformReliabilityWAN Failover	Network Protocols	PPPoE, SNMP v1/v2c/v3, TCP, UDP, DHCP, DDNS, HTTP, HTTPS, DNS,
VPN TunnelOpenVPN/IPsec/PPTP/L2TP/GRE/DMVPN/WireGuardFirewallACL/DMZ/Port Mapping/MAC Binding/URL FilterManagementWeb, CLI, SMS, On-demand dial up, DeviceHub, MobiCom Pro IoT Cloud, MobiCom Pro Development PlatformReliabilityWAN Failover		ARP, SNTP, Telnet, SSH, MQTT, MQTTS, BACnet/IP, Modbus RTU over
FirewallACL/DMZ/Port Mapping/MAC Binding/URL FilterManagementWeb, CLI, SMS, On-demand dial up, DeviceHub, MobiCom Pro IoT Cloud, MobiCom Pro Development PlatformReliabilityWAN Failover		TCP, Modbus TCP, etc.
ManagementWeb, CLI, SMS, On-demand dial up, DeviceHub, MobiCom Pro IoT Cloud, MobiCom Pro Development PlatformReliabilityWAN Failover	VPN Tunnel	OpenVPN/IPsec/PPTP/L2TP/GRE/DMVPN/WireGuard
Management Cloud, MobiCom Pro Development Platform Reliability WAN Failover	Firewall	ACL/DMZ/Port Mapping/MAC Binding/URL Filter
Reliability WAN Failover	Management	Web, CLI, SMS, On-demand dial up, DeviceHub, MobiCom Pro IoT
		Cloud, MobiCom Pro Development Platform
App Python SDK, Node-RED	Reliability	WAN Failover
	Арр	Python SDK, Node-RED

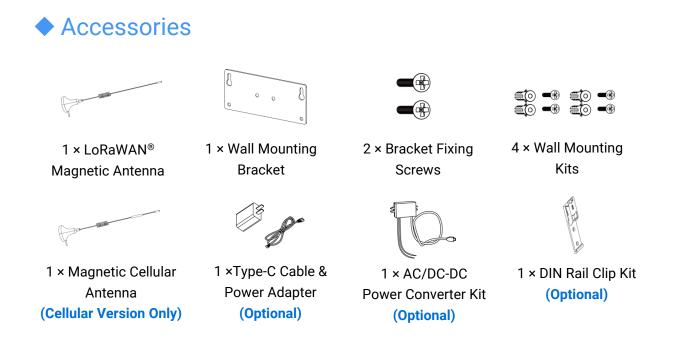
Power Supply and C	Consumption	
Power Input	1. 802.3 af PoE Input	
	2. 5V, 2A by Type-C Port	
Power Consumption	Typical 1.8 W, Max 6.9 W	
Physical Characteristics		
Ingress Protection	IP30	
Housing & Color	Metal, Black	
Weight	186g	
Dimensions	110 x 75 x 24 mm (4.33 x 2.95 x 0.94 in)	
Installation	Desktop, Wall Mounting, DIN Rail Mounting ²	
Environmental		
Operating	-20°C to +60°C (-4°F to +140°F)	
Temperature		
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, ISED	
Environmental	RoHS	

Dimensions(mm)





² Only new hardware devices support DIN Rail mounting. Please contact MobiCom Pro for it before purchase.



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



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