LINOVISION

IOT-G65

LoRaWAN Gateway Data Sheet



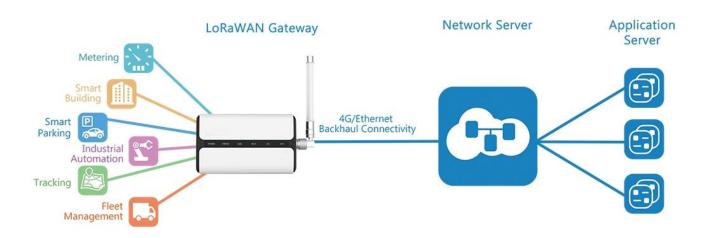


Introduction

IOT-G65 is an affordable 8-channel indoor LoRaWAN gateway. Adopting SX1302 LoRa chip and high-performance quad-core CPU, IOT-G65 supports connection with more than 2000 node connections. IOT-G65 has line of sight up to 10km and can cover about 2km in urbanized environment, which is ideally suited to smart office, smart building and many other indoor applications.

IOT-G65 not only supports not only multiple back-haul backups with Ethernet, Wi-Fi and cellular and has integrated mainstream LoRa network servers (such as TTN, ChirpsStack, etc.), but also is built-in network server and Linovision Cloud compliance for easy deployment.

Application Example

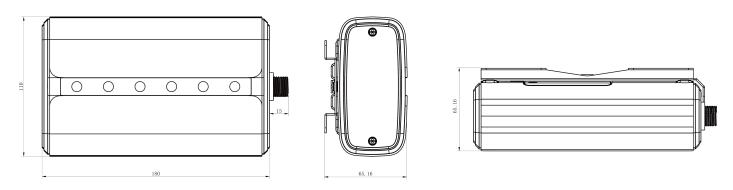


Specifications

Model	IOT-G65	
Hardware System		
CPU	Quad-core 1.5 GHz, 64-bit ARM Cortex-A53	
Memory	512 MB DDR4 RAM	
Flash	8 GB eMMC	
LoRaWAN		
Antenna	Fully Integrated and Internal Antenna	
	(Optional: $1 \times 50 \Omega$ N-Female External Connector)	
Channel	8 RX+1 TX	
Frequency Band	EU433/CN470/IN865/EU868/RU864/US915/AU915/KR920/AS923	
Sensitivity	-140dBm Sensitivity @292bps	
Output Power	27dBm Max	
Protocol	V1.0 Class A/Class C and V1.0.2 Class A/Class C	
Ethernet Interface		
Port	1 × RJ45 (PoE PD_support)	
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		
Antenna	Fully Integrated and Internal Antenna	
Standards	IEEE 802.11 b/g/n	
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 (Op	tional)	
Antenna	Fully Integrated and Internal Antenna	
SIM Slot	1	
Software		
Network Protocols	PPPoE, SNMP v1/v2c/v3, TCP, UDP, DHCP, DDNS, HTTP, HTTPS, DNS, ARP, SNTP,	
	Telnet, SSH, MQTT, etc.	
VPN Tunnel	OpenVPN/IPsec/PPTP/L2TP/GRE/DMVPN	
Access Authentication	CHAP/PAP/MS-CHAP/MS-CHAPV2	
Firewall	ACL/DMZ/Port Mapping/MAC Binding/URL Filter	
	Web, CLI, SMS, On-demand dial up, DeviceHub, Linovision Cloud	
Management	**	
Reliability	WAN Failover	
Power Supply and Co		
Power Supply	1. DC Jack Connector for 9-24 VDC power supply	
	2. 1 × 802.3 af PoE input	
Consumption Physical Characterist	≤ 4.2W	
Physical Characteristics		
Ingress Protection	IP65	
Dimensions	180 x 110 x 56.5 mm	
Mounting	Desktop, Wall or Pole Mounting	
Others		
Reset Button	1 × RST	
Console Port	1 × Type-C Port	
LED Indicators	1 × POWER, 1 × STATUS, 1 × LoRa, 1 × Wi-Fi, 1 × LTE, 1 × ETH	
Built-in	Watchdog, RTC, Timer	
Certification	CE, FCC	
Environmental		
Operating Temperature	-40°C to +70°C (-40°F to +158°F)	
	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 $^{\circ}\! F$	

▶ Product Images/Dimensions (mm)



Ordering Information

Model	IOT-G65
Air Interface	LTE(LTE-FDD/LTE-TDD)/CDMA(CDMA 1x/EVDO)/TD-SDMA/DC-HSPA+/HSPA+
	/HSUPA/HSDPA/WCDMA/EDGE/GPRS/GSM
4G	-E: B1/B3/B5/B7/B8/B20@FDD LTE, B38/B40/B41@TDD LTE
	-AF: B2/B4/B5/B12/B13/B14/B66/B71@FDD LTE
	-AU: B1/B2/B3/B4/B5/B7/B8/B28@FDD LTE, B40@TDD LTE
	-J: B1/B3/B8/B18/B19/B26 @FDD LTE,B41@TDD LTE
	-CE: B1/B3/B8@FDD LTE,B38/B39/B40/B41@TDD LTE
3G	-E: B1/B5/B8@WCDMA
	-AF: B2/B4/B5@WCDMA
	-AU: B1/B2/B5/B8 WCDMA
	-J: B1/B6/B8/B19@WCDMA
	-CE: B1/B8@WCDMA, B34/B39@TD-SCDMA, BC0@CDMA2000 1×/EVDO
2G	-E: 900/1800@GSM
	-AU: 850/900/1800/1900@GSM
	-CE: 900/1800@GSM

^{*:} Any other frequency band requirements please contact us.