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igW70 Smart Gateway

igW70 series smart gateway is used together with smart electric devices to provide two-way internet communication and ensure the possibilities to remotely control the devices or make adjustment on available parameters.

Available versions:

- 4G
- Wireless Wi-Fi
- Wired Ethernet (LAN)
- NB-IoT
- GPRS



Standard

CQC 1308-2017: Technical specification on intelligent power unit

Application

Smart gateway is used together with smart electric devices to collect and read the data of a number of parameters such as voltage, current, power, electricity on the software, and make partial metering and analysis for each circuit, thus achieve the purpose of monitoring power consumption, predict electrical failure, diagnose online, real-time alarm and remote breaking.

Structure

The smart gateway is made up of a plastic shell and communication circuit board. The shell is made by high flame-retardant and high strength plastic which can ensure the strong impact resistance and light weight, and has similar appearance with MCBs 3SB71-63. Communication circuit board adopts low power consumption design and asynchronous serial port RS485 communication mode, can drive up to 32 smart switches. It can be conveniently mounted on a standard 35 mm DIN-rail.

Technical specifications

4G version

Rated voltage	V AC	230		
Rated frequency	Hz	50		
Uplink communication		4G		
Downlink communication		RS485		
Max. communication rate	Uplink	Mbps	50	
	Downlink	Mbps	150	
Standard		Supporting kinds of network systems: GSM/GPRS/EDGE/CDMA1xd/EVDO/WCDMA/TD-SCDMA/TDD/FDD/FDD-LTE		
Frequency band	2G	CDMA: BC0		
	3G	UMTS: B1/88 CDMA EVDO: BC0 TD-SCDMA: B34/B39		
	4G	LTE-TDD: B38/B39/B40/B41 LTE-FDD: B1/B3/B5/B8		
Communication width	MB	20		
Transmission power		DL	UL	
	CDMA	Mbps	3.1	1.8
	WCDMA, DC-HSPA+	Mbps	42	5.76
	TD-SCDMA	Mbps	4.2	2.2
	LTE FDD, non-CA cat4	Mbps	150	50
	LTE TDD, non-CA cat4	Mbps	130	35
Drive capacity	Piece	32		

Wi-Fi version

Rated voltage	V AC	230	
Rated frequency	Hz	50	
Uplink communication		Wi-Fi	
Downlink communication		RS485	
Max. communication rate	20 MHz bandwidth	Mbps	72.23
	40 MHz bandwidth	Mbps	150
Wi-Fi characteristics		802.11b/g/n standard HT-40 Station or SoftAP mode is been supported	
Drive capacity	Piece	32	

Ethernet (LAN) version

Rated voltage	V AC	230	
Rated frequency	Hz	50	
Uplink communication		LAN	
Downlink communication		RS485	
Max. communication rate	Mbps	10/100, self-adaptation	
Connection		8 pins RJ45	
Electromagnetic isolation protection	kV	1.5	
Drive capacity	Piece	32	

NB-IoT version

Rated voltage	V AC	230	
Rated frequency	Hz	50	
Uplink communication		NB-IoT	
Downlink communication		RS485	
Max. communication rate	Uplink	Kbps	54
	Downlink	Kbps	25.2
Frequency band		B1/B3/B8/B5/B20/B28	
Protocol stack		TCP, UDP, MQTT	
Drive capacity	Piece	11	

GPRS version

Rated voltage	V AC	230	
Rated frequency	Hz	50	
Uplink communication		GPRS	
Downlink communication		RS485	
Max. communication rate	Uplink	Kbps	85.6
Drive capacity	Downlink	Kbps	85.6
		Piece	22

Selection and ordering data

Description	Type code	Order code
Wi-Fi version	IGW71	37185
Ethernet (LAN) version	IGW71E	37186
4G version (Internal antenna)	IGW71L	37187
4G version (External extension antenna)	IGW71LX	37188
NB-IoT version	IGW71N	37189
LoRa version	IGW71R	37190
4G version (Internal antenna) for MCCB	IGW72L	37191

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