

SPECIFICATION

MODEL:86 Type Gateway-GCP21



Confirmation

REVISION HISTORY					
VERSION	DATE	BOARD ID	PAGE	DESCRIPTION	AUTHOR
V1.0	2022-4-23	RTD211228_V1.0	11	specification	

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1.GENERAL DESCRIPTION

GCP21 is based on ARM Cortex-A7 dual-core 1.2GHz, integrated hardware H.264/H.265 video decoder and design of a touch intelligent voice gateway control panel, using national standard single 86 bottom box design, no need to change the wall, quick reinstallation, zero live wire design, can directly replace the original switch, whether new or old, can be easily installed. Customized 4-inch touch screen, 480*480P high-definition IPS LCD display, multi-touch capacitive screen, AF hydrophobic anti-pollution and anti-fingerprint coating, combined with customized UI interface and scene concept, create efficient wall interaction. Even if the network is disconnected, it can work stably, which is suitable for large households with ultra-stable wireless linkage.

ARM Cortex-A7 dual-core 1.2ghz, with integrated hardware H.264/H.265 video decoder

Standard 86 cartridge mounting, panel seamless connection

4 " 480*480P high-definition IPS LCD display, multi-touch capacitive screen, AF hydrophobic anti-fouling anti-fingerprint coating

Simple and generous UI touch interface with situational concept to create efficient human-computer interaction

Multi scene preset mode experience intelligent control

Screen brightness ADAPTS to ambient lighting

Support Wifi, Bluetooth, Zigbee 3.0, RF433、Z-Wave protocol

Operating temperature/humidity: 0°C-55°C/20%-93%RH

Storage temperature/humidity: -20°C- +80°C/10%-93%RH

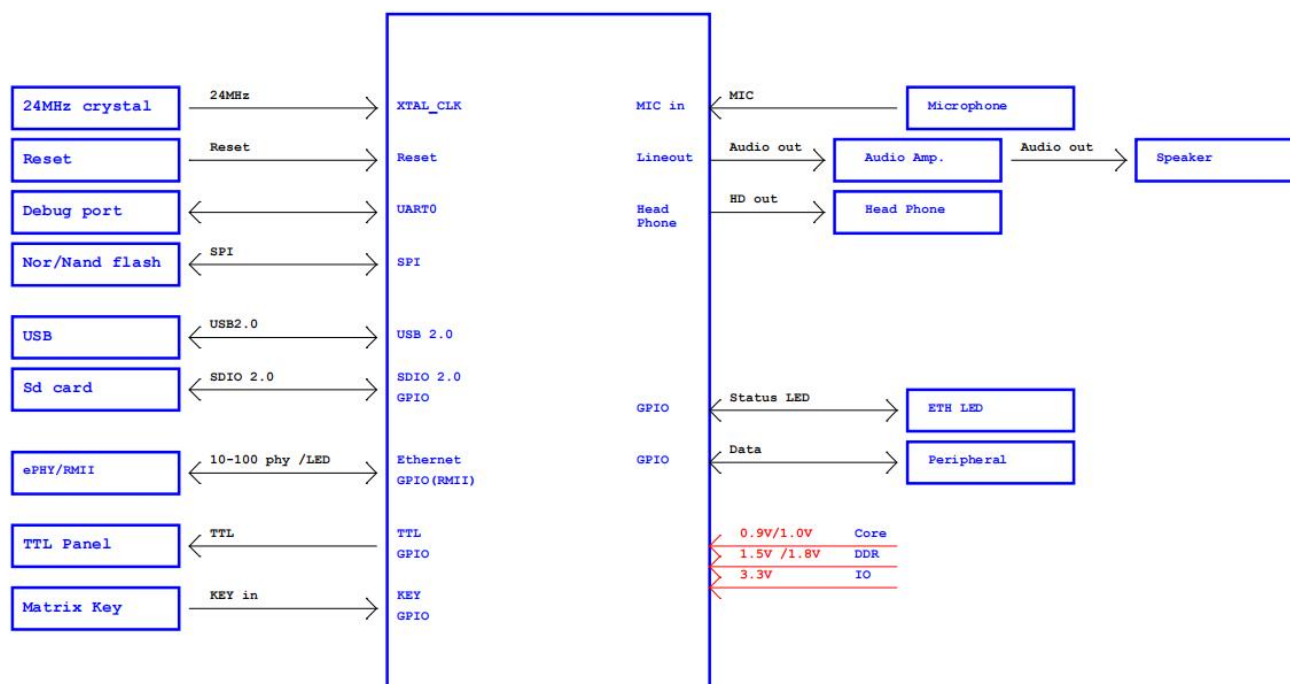
External dimension: 86mm(L)x86mm(W)x22mm(H)

2.PRODUCT PICTURES

Below pictures are for reference only:



4. Hardware block diagram



5. FEATURES

Models:

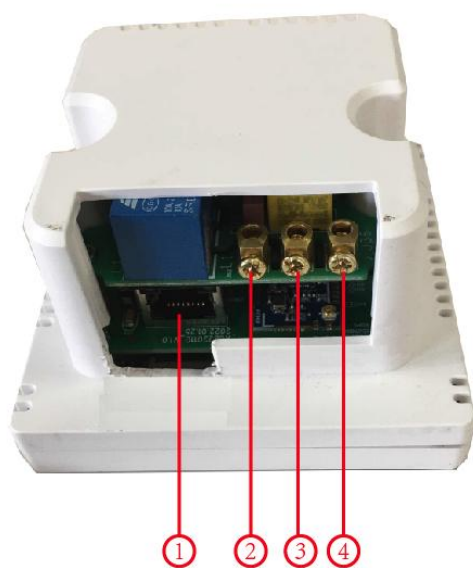
Difference Model	Zigbee or Z-Wave Module	RF433	WiFi/BT	LAN	AC 220V	AC220V 控制	RS485 or RS232
GCP21		Support	Support	*1	Support	Support	
GCP21-PR				*1 *1 PoE			Support
GCP21-F/G	Support	Support	Support	*1	Support	Support	
GCP21-PRF/G	Support			*1 *1 PoE			Support

CPU	Chip		Sigmastar SSD212	
	CPU Frequency		Dual ARM Cortex-A7 1GHz	
Storage	Internal Memory		64MB DDR2	
	Internal Storage		128MB(256MB optional) Nand Flash	
Network	Built-in WiFi		802.11 a/b/g/n	
	WiFi 2.4G Frequency Range		2.400~2.497GHz	
	Ethernet port(LAN)		1*RJ45 10/100Mbps LAN 1*RJ45 10/100Mbps LAN PoE Version	
	PoE		IEEE802.3af standard, PoE PD with TVS protection (optional)	
Display	4 " 480*480P high-definition IPS LCD display,			
Touch	multi-touch capacitive screen, AF hydrophobic anti-fouling anti-fingerprint coating			
Speaker	AAC Speaker		8Ω1W	
Buzzer	3V 80dB 2300Hz			
I/O interface	Micro USB	RS232/RS485	3P 15EDGK-3.81mm	GPIO 4P*2 15EDGK-3.81mm
	GTIoT	Debug	Reset button	
Protocol	ZigBee		3.0 (optional)	
	Bluetooth/BLE		4.1	
	RS485		TIA485/EIA-485-A -7~+12V	
	RS232		±5~±15V	
Control interface	Relay		1*3A 250VAC	
Extended interface	LEDs		Power	
	SD Card		Micro SD Card	
Power pack	Supply voltage		AC 220V	
	Energy		Within 5W(for reference only)	

Environment	Operating temperature	0~55℃
	Operating humidity	20%~93%
Mechanical properties	Size (mm)	86*86*20
	Net Weight (g)	126
Operating system(OS)	Linux	
Other	WiFi/BT antenna	
Certification	-	

6. Extension I/O definition

GCP21 I/O - PORTS



Item No.	Default function
1	RJ45 LAN Interface
2	AC 220V L1
3	AC220V L

4	AC220V N
5	4 " 480*480P high-definition IPS LCD display

7.Precautions for use

1. Relative humidity: 20% ~ 93% .
2. Storage temperature: -20 ~ 80°C
3. Operation temperature: 0°C to +55°C
4. Do not squeeze、 distort or disassemble the board.
5. Keep the board away from static electricity .
6. Keep the board away from water and other liquid.
7. Clean the board with soft and clean dry cloth when it's dirty.
8. Don't use long connect wires which may affect performance and image quality.

