



碩久科技有限公司

MaxLong Technology Co., Ltd

# SG2245

## Multifunction controller

### Feature

- Built-in Raspberry Pi CM4
- Wide Range Input Power (DC 9 ~ 32V)
- Multiple I/O Interfaces
- Powerful Computing capability
- CPU Heatsink Transfer Heat To Metal Housing
- M.2 key B for 5G (Default)
- M.2 key M for PCIe SSD / AI (optional)
- Mini-PCIe (for 4G/NB-IoT/LoRa)



5G

AI

IoT

### High performance

The core adopts industrial Broadcom BCM2711, which has 4 core computing capabilities and can perform AI extreme data edge computing .

### Great flexibility(Optional):

1. Use LTE 4G/5G modules to achieve high transmission, low latency, and meet field applications .
2. Use the LoRa module to become a LoRa controller. After collecting local data, it communicates with the cloud through the mobile network.
3. USB 3.0 can be connected to AI nerve stick for high-speed computing.

### Multifunctional

With 2 Ethernet networks, 2 RS232 or 2 RS485 and 1 DO, 5 DI, to meet the different needs of each field.

# Specification

## System

CPU	Broadcom BCM2711 QuadCore Cortex A72 (ARM v8) 64 bits SoC @ 1.5G
RAM	2 G Bytes LPDDR4 SDRAM
ROM	8 G Bytes EMMC Flash Memory
GPU	VideoCore VI (OpenGL ES 3.0, H.265 HEVC (4Kp60fps decode), H.264(1080p60fps decode)
OS	Linux OS

## Connectivity

Wireless	Wifi 802.11b / g / n / ac (2.4/5GHz) (optional) Bluetooth 5.0 BLE (optional)
5G	M.2 key B USB 3.0 / PCI-E for 5G (optional)
4G	Mini-PCIe : USB 2.0 for 4G / NB-IoT / LoRa · (optional) Nano SIM Slot for 5G / 4G / NB-IoT
Ethernet	10/100/1000 Mbps Giga Lan * 1 (RJ45) · 10/100Mbps * 1 (RJ45)

## Interface

USB 3.0 * 2, USB 2.0 * 2 · (optional) M.2 key M for PCIe SSD
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## Serial Port

Port 1: RS-232/422/485 * 1 · Port 2: RS-232/485 * 1
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## Digital Input / Digital Output

Digital Input	Digital Output
Digital Input * 5 Pin (Active High / Active Low Selectable) Dry contact : Logic level 0 : close to GND , Logic level 5 : open Wet contact :Logic level 0 : 0 ~ 3 V, Logic level 1 : 10 ~ 30 V	Digital Output * 1 Pin (Active High / Active Low Selectable) 120VAC @0.5A, 240VAC @0.25A, 30VDC @1A

## Video Output

Micro HDMI * 1 (4Kp60fps with audio)
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## Mechanical & Environment

Operating Temperature : - 20 °C ~ 75 °C Storage Temperature : - 25 °C ~ 80 °C	Dimensions : 170 * 110 * 30 mm ( W * D * H ) Weight : 950 gm Housing : Metal.
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## Power

DC 9~32V, 1000mA@12V (DC Jack or Terminal Input)
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## LED

PI PWR / EMMC / Serial / DI / DO / SYS-Customer defined / 5G / 4G
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## Others

RTC : Real Time Clock * 1 (with Battery) Buzzer * 1 Watch Dog Timer	Reset Button * 1 MIPI CSI 2-lane * 1 (optional) Fan - DC 12V (optional)
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## Warranty

Warranty period : 1 year
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## Order Information

SG2245

SG2245-4G

SG2245-5G

SLG2245 LoRa

SLG2245 LoRa

SLG2245-4G

SLG2245-5G

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