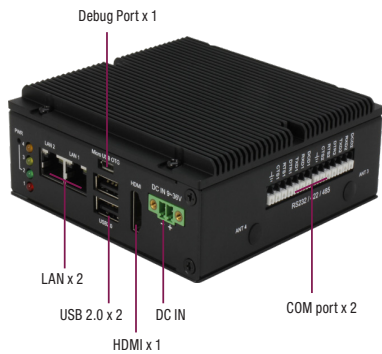


# SRG-CM4

Standard RISC Gateway Board With Broadcom BCM2711 Quad-Core Cortex-A72 SoC @ 1.5GHz

RISC Gateway Solutions - RISC Gateway & Expansion



Phoenix Connector



## Features

- Broadcom BCM2711 quad-core Cortex-A72 SoC @ 1.5GHz
- On board LPDDR4, up to 8 GB, eMMC 5.1 x 1
- HDMI 2.0 x 1
- GbE x 2, USB 2.0 x 2
- Full-sized mini card x 1
- RS-232/422/485 switchable x 2, RS-485 with isolation x 1
- CAN 2.0 A/B x 2, TPM 2.0, RTC
- Wide Voltage DC 9V ~ 36V
- Wide Temperature -20 °C ~ 70 °C



## Specifications

| System                       |                                                                          |
|------------------------------|--------------------------------------------------------------------------|
| Processor                    | Broadcom BCM2711 Quad-Core Cortex-A72 SoC @1.5 GHz                       |
| Memory                       | On board LPDDR4, up to 8 GB                                              |
| Storage                      | eMMC 5.1, 8/16/32 GB (Optional)<br>Micro SD Card x 1 (Optional w/o eMMC) |
| Real Time Clock              | RTC x 1, with 3V CR2032H Lithium battery                                 |
| Security                     | TPM 2.0 (Optional)                                                       |
| Indicators                   | Programmable LED control x 3                                             |
| Cellular                     | —                                                                        |
| Wireless Lan                 | —                                                                        |
| Operating System             | Raspberry Pi Desktop<br>Debian 11                                        |
| Support Protocol             | —                                                                        |
| I/O Interfaces               |                                                                          |
| Serial Port                  | RS-232/422/485 switchable x 2<br>RS-485 with isolation x 1 (Optional)    |
| Ethernet                     | Gigabit Ethernet x 2, RJ45                                               |
| Audio                        | —                                                                        |
| USB                          | USB 2.0 x 2<br>USB 2.0 OTG x 1                                           |
| ADC                          | —                                                                        |
| DI/DO                        | DI x 2 / DO x 2 with Isolation                                           |
| CAN Bus                      | CAN 2.0 A/B x 2                                                          |
| Display                      | HDMI 1.4, up to 4K30<br>(For SD card storage, up to 1080P)               |
| Power Connector              | 2 pin 3.81mm pitch phoenix connector                                     |
| Debug Port                   | UART x 1 (Internal Wafer Box)                                            |
| Expansion Slot               | Full-sized mini card x 1 (USB signal)                                    |
| Other Interface              | Software button x 1<br>Power button x 1<br>Reset button x 1              |
| Power Supply                 |                                                                          |
| Power Requirement            | DC 9 ~36 V                                                               |
| Power Consumption            | 12.6 W                                                                   |
| MTBF (Hours)                 | 1,311,814 Hours                                                          |
| Environmental and Mechanical |                                                                          |
| Dimension                    | 4.11 " x 4.13" x 1.89" (104.4 x 105 x 41mm)                              |
| Weight                       | 1.08 lb (0.49 kg)                                                        |
| Mount Options                | Wall Mount, Din Rail (Optional)                                          |
| Operation Temperature        | -4°F ~ 158°F (-20 °C ~ 70°C)                                             |
| Storage Temperature          | -40°F ~ 176°F (-40°C ~ 80°C)                                             |
| Operation Humidity           | 10% ~ 90% relative humidity, non-condensing                              |
| Certification                | CE/FCC Class A                                                           |

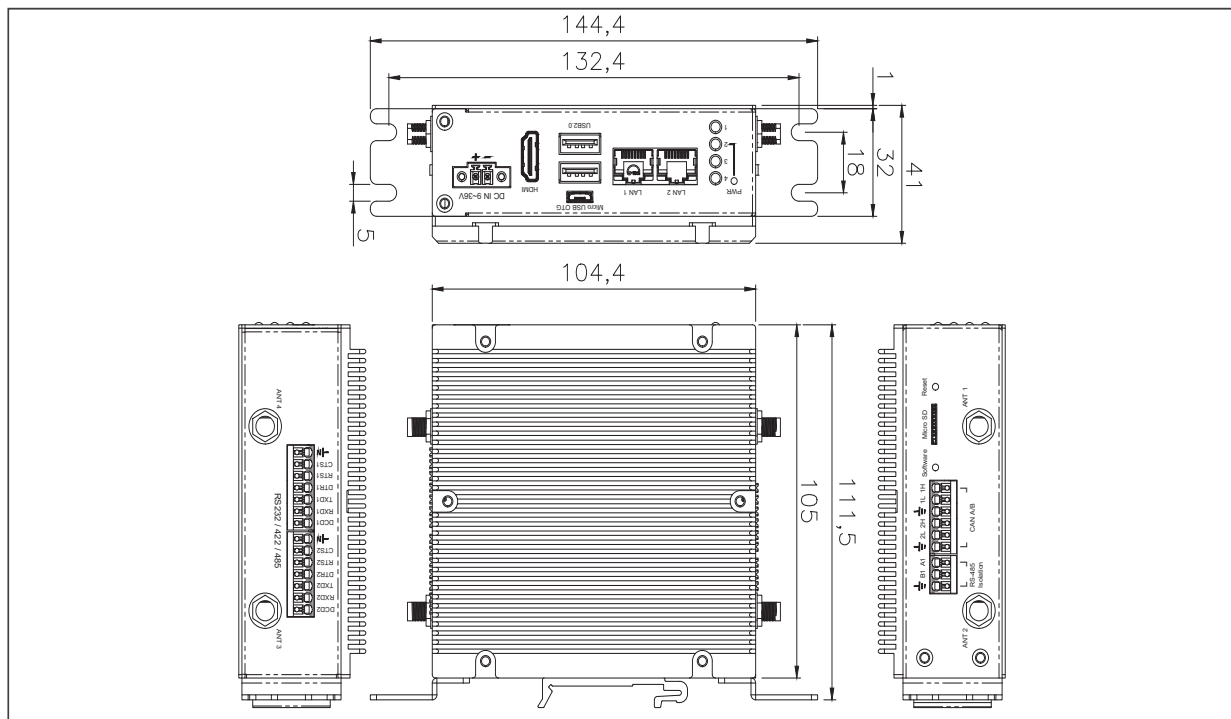
# SRG-CM4

02

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## Dimension

Unit: mm



## Packing List

- SRG-CM4 x 1
- 2pin 3.81mm Power Terminal block w/lock AWG 28-14 x 1

## Optional Accessories

| Part Number | Description                                                  |
|-------------|--------------------------------------------------------------|
| 125530040D  | Power Adapter.DC.100-240V.12V.3.34A.40W.3P Phoenix P=3.81mm. |
| 170203180J  | POWER CORD.3P-250V 13A.1.8M.UK                               |
| 170X000799  | POWER CORD.3P-125V 10A.1.8M.USA                              |
| 170X000800  | POWER CORD.3P-250V 10A.1.8M.EU                               |
| 170X000806  | POWER CORD.3P-125V 7A.1.8M.TWN                               |
| 170X000803  | POWER CORD.3P-125V 7A.1.8M.JPN                               |
| 9651SCM400  | Wall mount kit. 32x32mm.SRG-CM4 series                       |
| 9651352C02  | DIN rail kit                                                 |

## Ordering Information

| Part Number      | CPU                  | NPU | Memory               | Display  | Storage                                        | LAN     | USB                             | COM                                                         | Expansion Slot                           | Power    | Operating Temp | Audio | Others                                                          | OS |
|------------------|----------------------|-----|----------------------|----------|------------------------------------------------|---------|---------------------------------|-------------------------------------------------------------|------------------------------------------|----------|----------------|-------|-----------------------------------------------------------------|----|
| SRG-CM4-A10-0001 | —<br>(by CM4 module) | —   | —<br>(by CM4 module) | HDMI x 1 | Micro SD card x 1<br>(or eMMC from CM4 module) | GbE x 2 | USB 2.0 x 2,<br>USB 2.0 OTG x 1 | RS-232/422/485 switchable x 2,<br>RS-485 with isolation x 1 | Full-sized mini card x 1<br>(USB signal) | 9V ~ 36V | -20 °C ~ 70 °C | —     | CAN 2.0 A/B x 2<br>TPM 2.0<br>DI x 2 / Do x 2<br>with isolation | —  |

## Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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