



**GRP-2841M-5GE**  
5G Edge Computing Controller (Asia Only)

### Features

- Cortex-A53 CPU, 1.6 GHz, quad-core
- 1 GB LPDDR4 RAM and 8 GB eMMC Flash
- Linux Kernel 4.14.98
- Provide NAT and port forwarding function
- Intelligent Remote Terminal Unit (RTU)
- Intelligent multiport serial gateway
- Built-in 5G wireless module
- Support GPS/GLONASS/BeiDou (Compass)/Galileo
- Wi-Fi. Station & AP mode (option)
- Support Node-RED (flow-based programming tool)(option)
- 10/100/1000M Two Ethernet Ports
- 4 Serial Ports (RS-232/485)



### Introduction

The GRP-2841M-5GE provided by ICP DAS is a 5G Edge Computing Controller. GRP-2841M-5GE can become a wireless router through its built-in 5G communication module, providing Ethernet and Wi-Fi (option) data transmission. It also has built-in GPS/GNSS functionality and can also be used as a GPS tracking system for vehicle management or marine systems. GRP-2841M-5GE supports Node-RED (flow-based programming tool), Users can create user control logic for field requirements through Node-Red. The GRP-2841M-5GE can process a large amount of data in a high-performance CPU and is suitable for harsh industrial environments.

### Applications

- 5G Wireless Router



- Remote Video Monitor



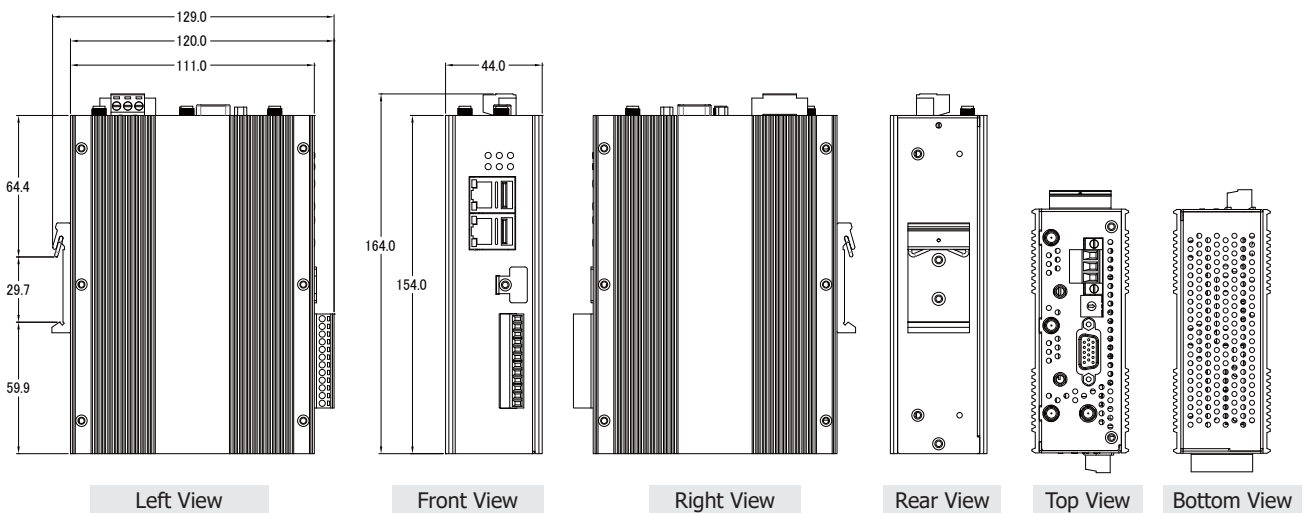
• Serial Port Gateway Application



• Node-RED Application



■ Dimensions (Units: mm)

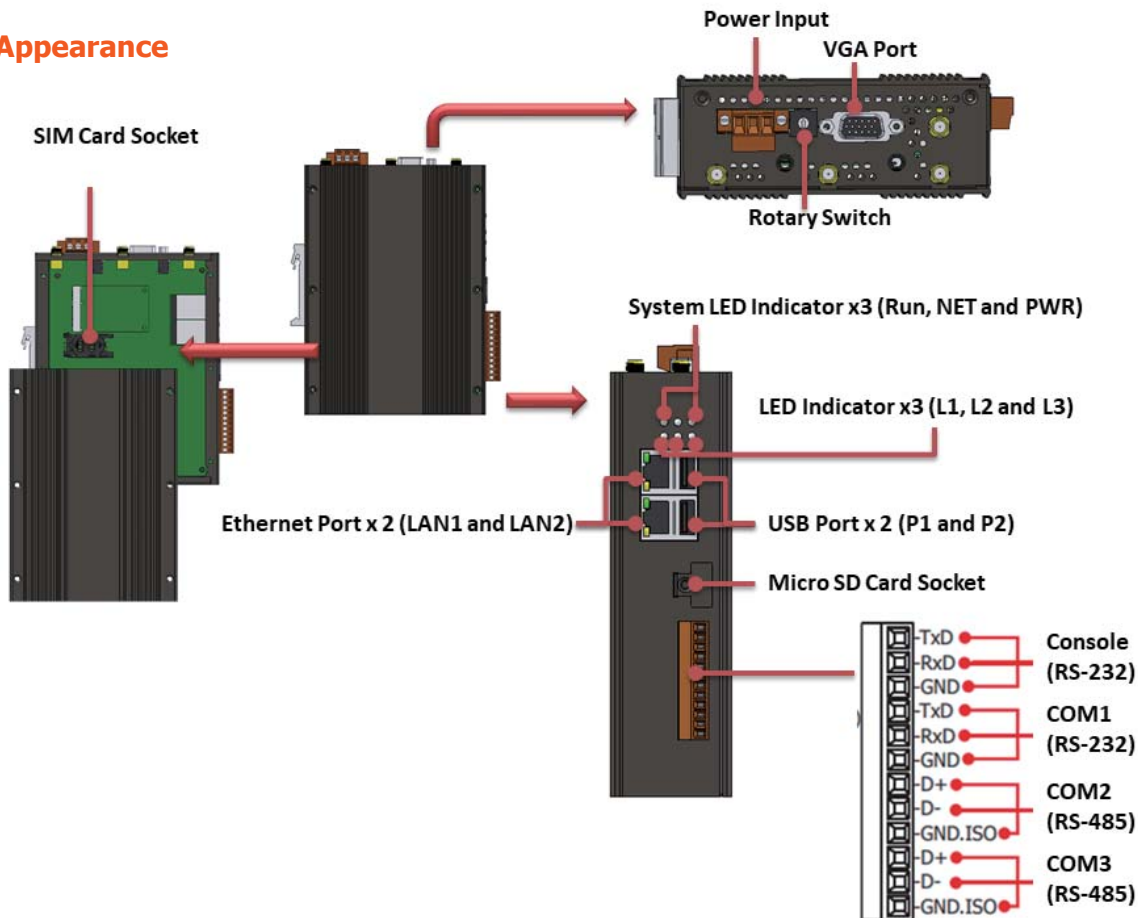


## System Specifications

<b>Model</b>	<b>GRP-2841M-5GE</b>
<b>Software</b>	
OS	Linux Kernel 4.14.98
Service	SSH, Web, SNMP Server, SMTP, DDNS
Function	NAT and port forwarding function Remote Terminal Unit (RTU) Multiport serial gateway 5G wireless router (option)
<b>Main Unit</b>	
CPU	Cortex-A53 CPU, 1.6 GHz, quad-core
System Memory	1 GB LPDDR4 SDRAM
Storage	8 GB eMMC Flash, 4 GB microSD card (up to 32 GB)
Non-Volatile Memory	64 KB FRAM; 128 KB MRAM
Real Time Clock	Provide seconds, minutes, hours, dates, day of week, month, year
Watchdog Timer	Yes
<b>LED Indicators</b>	
Status	1 x PWR 1 x NET 1 x RUN 1 x L1 1 x L2 1 x L3
<b>3G System</b>	
Frequency Band	WCDMA: B1/B2/B3/B4/B5/B6/B8/B19
<b>COM Ports</b>	
Ports	1 x RS-232(Console, Debug) 1 x RS-232 2 x RS-485(2500VDC, Isolated)

<b>Model</b>	<b>GRP-2841M-5GE</b>
<b>4G System</b>	
Frequency Band	FDD: B1/B2/B3/B4/B5/B7/B8/B12(B17)/B13/ B14/B18/B19/B20/B25/B26/B28/B29/ B30/B32/B66/B71  TDD: B34/B38/B39/B40/B41/B42/B48
<b>5G System</b>	
Frequency Band	n1/n2/n3/n5/n7/n8/n12/n20/n28/n41/n66/ n71/n77/n78/n79
<b>Ethernet</b>	
Ports	2 x RJ-45, 10/100/1000 Base-T(X)
<b>USB</b>	
Ports	2 x USB 2.0
<b>Power</b>	
Input Range	+12 VDC ~ +48 VDC
Consumption	9.6 W (0.4 A @ 24 VDC)
<b>Mechanical</b>	
Casing	Metal
Dimensions (mm)	44 x 164 x 129 (W x L x H)
Installation	DIN-Rail
<b>Environment</b>	
Operating Temperature	-25 ~ +70°C
Storage Temperature	-30 ~ +80°C
Humidity	10 ~ 90% RH, Non-condensing

## Appearance



## Ordering Information

<b>GRP-2841M-5GE CR</b>	5G Edge Computing Controller (RoHS) (Asia Only)
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