

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

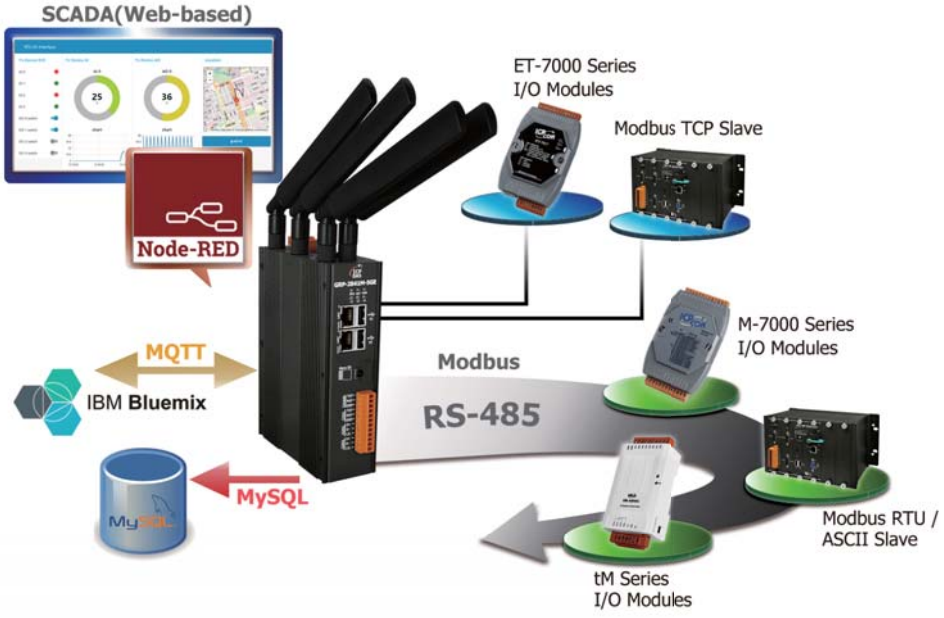


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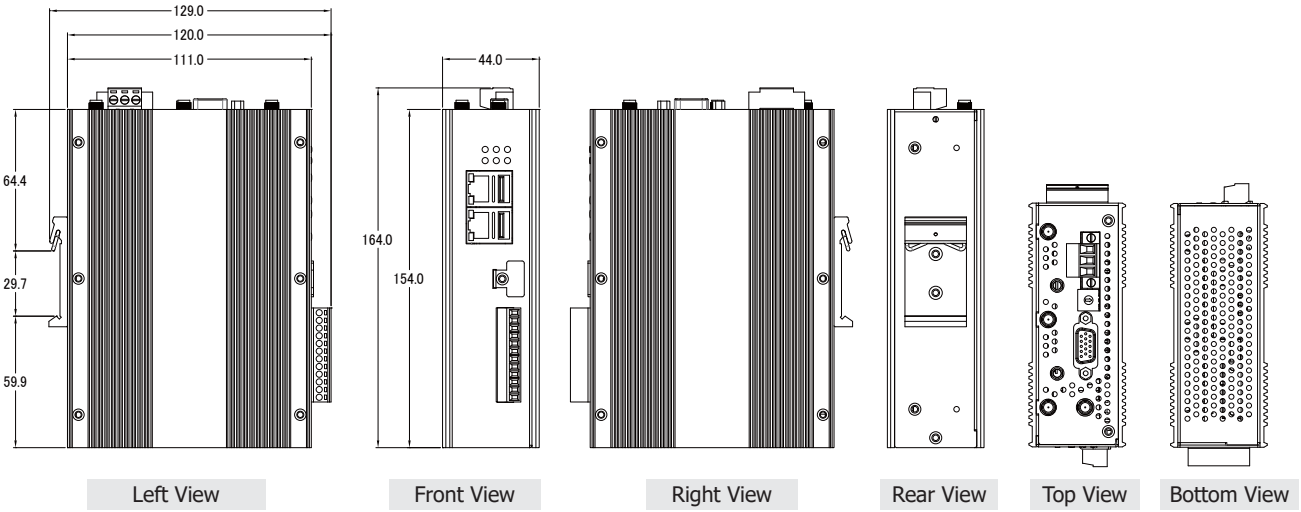
- Serial Port Gateway Application



- Node-RED Application



Dimensions (Units: mm)



Left View | Front View | Right View | Rear View | Top View | Bottom View

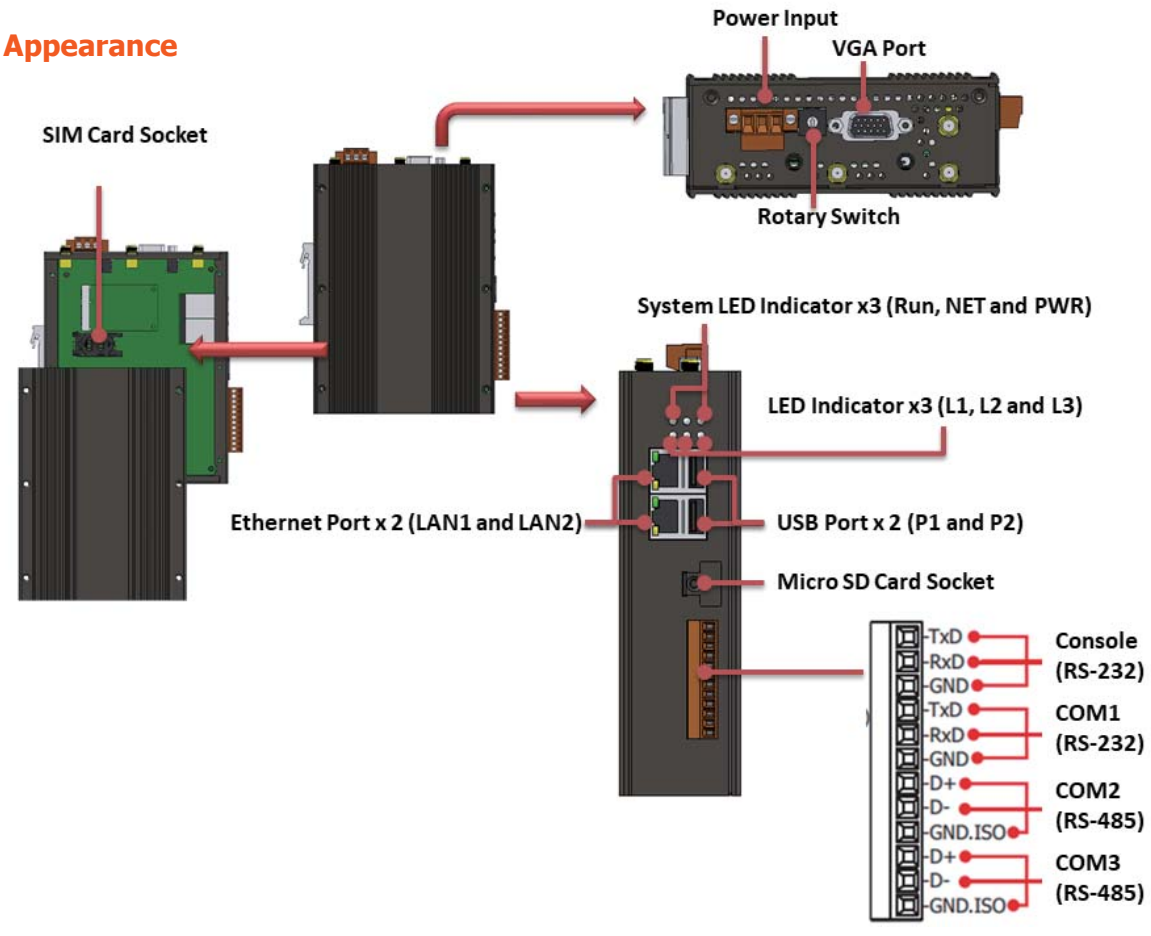
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System Specifications

Model	GRP-2841M-5GE
Software	
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)
Main Unit	
CPU	Cortex-A53 CPU, 1.6 GHz, quad-core
System Memory	1 GB LPDDR4 SDRAM
Storage	8 GB eMMC Flash, 32 GB microSD card
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
LED Indicators	
Status	1 x PWR 1 x NET 1 x RUN 1 x L1 1 x L2 1 x L3
3G System	
Frequency Band	WCDMA: B1/B2/B3/B4/B5/B6/B8/B19
COM Ports	
Ports	1 x RS-232(Console,Debug) 1 x RS-232 2 x RS-485(2500VDC,Isolated)

Model	GRP-2841M-5GE
4G System	
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
5G System	
Frequency Band	n1/n2/n3/n5/n7/n8/n12/n20/n28/n41/n66/ n71/n77/n78/n79
Ethernet	
Ports	2 x RJ-45, 10/100/1000 Base-T(X)
USB	
Ports	2 x USB 2.0
Power	
Input Range	+12 VDC ~ +48 VDC
Consumption	9.6 W (0.4 A @ 24 VDC)
Mechanical	
Casing	Metal
Dimensions (mm)	44 x 164 x 129 (W x L x H)
Installation	DIN-Rail
Environment	
OperatingTemperature	-25 ~ +70°C
Storage Temperature	-30 ~ +80°C
Humidity	10 ~ 90% RH, Non-condensing

Appearance



Ordering Information

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

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