

| Industrial LoRaWAN Gateway | Model    |            |   | Cellular            | SIM | Cellular Antenna | Ethernet                     | Serial                 | CAN | Analog Input | USB     | I/O    | Bluetooth | MicroSD | GNSS     | POE            | LED Indicators                                         | Wi-Fi                       | Power Supply Input Range | Mounting                    | Dimension Weight                          | Operating Temperature | Approval                                          | Software                                          | Firmware Upgrade   |
|----------------------------|----------|------------|-----------------------------------------------------------------------------------|---------------------|-----|------------------|------------------------------|------------------------|-----|--------------|---------|--------|-----------|---------|----------|----------------|--------------------------------------------------------|-----------------------------|--------------------------|-----------------------------|-------------------------------------------|-----------------------|---------------------------------------------------|---------------------------------------------------|--------------------|
|                            | R3000-LG | R3000-LG4L |  | 4G FDD LTE/ TDD LTE | 2   | 2                | 2 x LAN or 1 x WAN 1 x LAN   | 1 x RS232 or 1 x RS485 | N/A | N/A          | 1 x USB | 2 x DI | N/A       | 1       | Optional | N/A            | 6 includes RUN, MDM, USB, RSSI, NET, SIM               | N/A                         | 9 to 60 VDC              | Din-Rail Wall-Mount Desktop | 125 x 104 x 43.5mm, 570g, Metal housing   | -40 to +75°C          | CE, UKCA, RCM, FCC, PTCRB, IC AT&T RoHS 2.0, WEEE | VPN/RobustVPN Routing Protocol Firewall SDK + APP | Web/CLI/ SMS/ RCMS |
|                            | R1520-LG | R1520-LG   |  | 4G FDD LTE/ TDD LTE | 2   | 2                | 2 x LAN or 1 x WAN + 1 x LAN | 1 x RS232 1 x RS485    | N/A | N/A          | 1 x USB | N/A    | N/A       | N/A     | N/A      | 1 x PD 802.3af | 1 x RUN, 1 x MDM, 1 x USB, 1 x RSSI, 1 x WLAN, 1x LoRa | supports AP and Client mode | 9 to 60 VDC              | Din-Rail Wall-Mount Desktop | 105 x 90 x 46 mm, 238.5g, Plastic housing | -20 to +60°C          | CE* RCM* FCC* RoHS 2.0 (*In progress)             | VPN/RobustVPN Routing Protocol Firewall SDK + APP | Web/CLI/ SMS/ RCMS |

| 5G IoT Routers | RS020       | R5020-5G    |  | 5G NR/ 4G FDD LTE/ TDD LTE | 2 | 4 | 4 x LAN or 1 x WAN 3 x LAN 1,000 Mbps                | 1 x RS232 1 x RS485                            | N/A | N/A | 1 x USB | 1 x DI 1 x DO | N/A | 1   | Optional | 1 x PD port 802.3at | 6 includes 1 x RUN, 1 x MDM, 1 x USB, 1 x RSSI, 1 x Net, 1 x WiFi | supports AP and Client mode | 9 to 36 VDC (POE-PD) 10 to 30 VDC (ACC) | Din-Rail Wall-Mount Desktop | 125 x 100 x 48mm, 500g, Metal housing  | -20~+55°C (Normal) -25~+70°C (Extended) | CE, CB, RCM, POSTEL, CCC, E-Mark, TDRA, FCC, IC, PTCRB, SIRIM, UKCA, NTC AT&T RoHS 2.0, WEEE (*In progress) | VPN/RobustVPN Routing Protocol Firewall SDK + APP | Web/CLI/ SMS/ RCMS |
|----------------|-------------|-------------|-----------------------------------------------------------------------------------|----------------------------|---|---|------------------------------------------------------|------------------------------------------------|-----|-----|---------|---------------|-----|-----|----------|---------------------|-------------------------------------------------------------------|-----------------------------|-----------------------------------------|-----------------------------|----------------------------------------|-----------------------------------------|-------------------------------------------------------------------------------------------------------------|---------------------------------------------------|--------------------|
|                | RS020- Lite | R5020- Lite |  | 5G NR/ 4G FDD LTE/ TDD LTE | 2 | 4 | 2 LAN by default, can be configured as 1 WAN + 1 LAN | 1 x RS232 or 1 x RS485 (software configurable) | N/A | N/A | 1 x USB | N/A           | N/A | N/A | N/A      | 1 x PD port 802.3at | 1 x RUN, 1 x MDM, 1 x USB, 1 x RSSI, 1 x Wi-Fi 2.4G, 1 x Wi-Fi 5G | AP and Client mode          | 12 to 36 VDC                            | Din-Rail Wall-Mount Desktop | 136 x 115 x 32 mm, 475g, Metal housing | -20~+55°C (Normal) -25~+70°C (Extended) | CE, UKCA, RCM, JATE, CB, E-Mark, TELEC, NTC, IMDA*, RoHS 2.0, WEEE (*In progress)                           | VPN/RobustVPN Routing Protocol Firewall SDK + APP | Web/CLI/ SMS/ RCMS |
|                | RS010       | R5010       |  | 5G NR/ 4G FDD LTE/ TDD LTE | 2 | 4 | 1 LAN 1,000 Mbps                                     | N/A                                            | N/A | N/A | 1 x USB | N/A           | N/A | N/A | N/A      | 1 x PD 802.3af      | 1 x RUN, 1 x MDM, 1 x USB, 1 x RSSI                               | N/A                         | 9 to 60 VDC                             | Din-Rail Wall-Mount Desktop | 100 x 9 4 x 30 mm, 276g, Metal housing | -40~+70°C                               | CE, UKCA, RCM, CB                                                                                           | VPN/RobustVPN Routing Protocol Firewall SDK + APP | Web/CLI/ SMS/ RCMS |

| Industrial Edge Computing Gateway | EG5100 | EG5100 |    | 4G FDD LTE/ TDD LTE        | 2 | 2             | 2 x LAN or 2 x WAN or 1 x LAN 1 x WAN           | 2 x RS232/RS485 (software configurable) Or 1 x RS232/RS485 (software configurable) + 1 x CAN | N/A | N/A | 1 x USB                       | 2 x DI 2 x DO           | Optional | N/A | Optional | N/A | 4 includes RUN, MDM, USB, Signal          | Optional, supports AP and Client mode | 9 to 60 VDC | Din-Rail Wall-Mount Desktop | 49 x 105 x 128mm, 567g, Metal housing   | -40 to +70°C | CE, UKCA, RCM, CB, FCC, IC, Telec, JATE, NTC* RoHS 2.0, WEEE (*In progress)                                  | VPN/RobustVPN Routing Protocol Firewall SDK + APP | Web/CLI/ SMS/ RCMS |
|-----------------------------------|--------|--------|-------------------------------------------------------------------------------------|----------------------------|---|---------------|-------------------------------------------------|----------------------------------------------------------------------------------------------|-----|-----|-------------------------------|-------------------------|----------|-----|----------|-----|-------------------------------------------|---------------------------------------|-------------|-----------------------------|-----------------------------------------|--------------|--------------------------------------------------------------------------------------------------------------|---------------------------------------------------|--------------------|
|                                   | EG5120 | EG5120 |    | 5G NR/ 4G FDD LTE/ TDD LTE | 2 | 2 (4G) 4 (5G) | 2 x LAN or 2 x WAN or 1 x LAN 1 x WAN 1,000Mbps | 2 x RS232/RS485 (software configurable)                                                      | N/A | N/A | 1 x USB                       | 2 x DI 2 x DO           | Optional | 1   | Optional | N/A | 4 includes RUN, MDM, USB, Signal          | Optional, supports AP and Client mode | 9 to 60 VDC | Din-Rail Wall-Mount Desktop | 49 x 105 x 128mm, 567g, Metal housing   | -40 to +70°C | CE, UKCA, RCM, CB, FCC, IC, Telec, JATE, PTCRB, UL, TDRA, NTC* AT&T, VERIZON*, RoHS 2.0, WEEE (*In progress) | VPN/RobustVPN Routing Protocol Firewall SDK + APP | Web/CLI/ SMS/ RCMS |
|                                   | EG5101 | EG5101 |  | 4G FDD LTE/ TDD LTE        | 2 | 1             | 1 x LAN or 1 x WAN                              | 1 x RS232 1 x RS485                                                                          | N/A | N/A | 1                             | N/A                     | N/A      | N/A | N/A      | N/A | 4 includes RUN, MDM, USB, RSSI            | N/A                                   | 9 to 36 VDC | Din-Rail Wall-Mount Desktop | 134.8 x 105 x 32mm, 374g, Metal housing | -20~70°C     | CE, RCM, UKCA, CB RoHS 2.0, WEEE                                                                             | VPN/RobustVPN Routing Protocol Firewall SDK + APP | Web/CLI/ SMS/ RCMS |
|                                   | EG5200 | EG5200 |  | 4G FDD LTE/ TDD LTE        | 2 | 2             | 1x WAN + 4 x LAN or 5 x LAN, 1,000 Mbps         | 2 x RS232/RS485 (software configurable)                                                      | N/A | N/A | 2 x USB TypeA, 1 x USB TypeC, | 2 x DI 2x Relay Out put | Optional | 1   | Optional | N/A | 6 includes RUN, MDM, 2 x USB, Signal, VPN | Optional, supports AP and Client mode | 9 to 60 VDC | Din-Rail Wall-Mount Desktop | 60 x 105 x 128mm 622g, Metal housing    | -30~70°C     | CE*, RCM*, UKCA*, CB* RoHS 2.0, WEEE                                                                         | VPN/RobustVPN Routing Protocol Firewall SDK + APP | Web/CLI/ SMS/ RCMS |

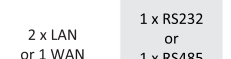
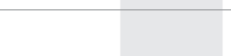


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www.robustel.com

| Industry gateway | Model  |        |   | Cellular            | SIM | Cellular Antenna | Ethernet                              | Serial                        | CAN     | Analog Input | USB                   | I/O              | Bluetooth | MicroSD | GNSS     | POE | LED Indicators                                          | Wi-Fi                                                      | Power Supply Input Range | Mounting                      | Dimension Weight                       | Operating Temperature                                                                              | Approval                                        | Software                                          | Firmware Upgrade   |
|------------------|--------|--------|-------------------------------------------------------------------------------------|---------------------|-----|------------------|---------------------------------------|-------------------------------|---------|--------------|-----------------------|------------------|-----------|---------|----------|-----|---------------------------------------------------------|------------------------------------------------------------|--------------------------|-------------------------------|----------------------------------------|----------------------------------------------------------------------------------------------------|-------------------------------------------------|---------------------------------------------------|--------------------|
|                  | EV8100 | EV8100 |  | 4G FDD LTE/ TDD LTE | 2   | 2                | 2 x LAN or 2 x WAN or 1 x LAN 1 x WAN | 1 x RS232 1 x RS485           | 1 x CAN | N/A          | 1                     | 4 x DI 1 x Relay | Optional  | N/A     | N/A      | N/A | 7 includes Battery, RUN, Line, MDM, RSSI, Cloud, Device | Optional, support AP and Client mode                       | 9 to 30 VDC              | Din-Rail/ Wall-Mount/ Desktop | 170 x 150 x 35mm 470g, Plastic housing | -20 ~ 60 °C (Without battery) 0 ~ +45 °C (With battery) Note: The battery can be charged at 0~35°C | CE, RCM, UKCA, JATE*, TELEC, CB, RoHS 2.0, WEEE | VPN/RobustVPN Routing Protocol Firewall SDK + APP | Web/CLI/ SMS/ RCMS |
|                  | MG460  | MG460  |  | 4G FDD LTE/ TDD LTE | 2   | 2                | 2 x LAN or 2 x WAN or 1 x LAN 1 x WAN | 2 x RS232 2 x RS422 2 x RS485 | 1 x CAN | N/A          | 2 x USB3.0 1 x USB2.0 | 4 x DI 1 x DO    | Optional  | 1       | Optional | N/A | 1 x RUN, 1 x MDM, 2 x USB, 1 x Signal, 1 x VPN          | Wi-Fi 2.4 GHz/5 GHz, 2 x 2 MU-MIMO IEEE802.11a/b/g/n/ac/ax | 24V DC                   | Din-Rail/ Wall-Mount/ Desktop | 55 x 111 x 128mm 622g, Plastic housing | -15 ~ 55 °C                                                                                        | CE*, RCM*, UKCA*, CB FCC*, IC*                  | IPsec, OpenVPN, GRE                               | Web/CLI/ SMS       |

| R3000 Cellular Routers | Model      |           |  | Cellular            | SIM | Cellular Antenna | Ethernet | Serial                | CAN | Analog Input | USB          | I/O | Bluetooth | MicroSD | GNSS | POE | LED Indicators                     | Wi-Fi | Power Supply Input Range | Mounting                    | Dimension Weight                       | Operating Temperature | Approval                                                                                            | Software                                          | Firmware Upgrade       |
|------------------------|------------|-----------|-------------------------------------------------------------------------------------|---------------------|-----|------------------|----------|-----------------------|-----|--------------|--------------|-----|-----------|---------|------|-----|------------------------------------|-------|--------------------------|-----------------------------|----------------------------------------|-----------------------|-----------------------------------------------------------------------------------------------------|---------------------------------------------------|------------------------|
|                        | R3000-Lite | R3000-L4L |  | 4G FDD LTE/ TDD LTE | 2   | 2                | 1 x LAN  | 1 x RS232 & 1 x RS485 | N/A | N/A          | 1 x USB host | N/A | N/A       | N/A     | N/A  | N/A | 6 includes RUN, PPP, USB, 3 x RSSI | N/A   | 9 to 36 VDC              | Din-Rail Wall-Mount Desktop | 105 x98 x 29.5 mm, 305g, Metal housing | -40 to +75°C          | CE, UKCA, RCM, Telec, CRC, SUBTEL, MTC, NTC*, ENACOM, CB, JATE, SIRIM, ANATEL, URSEC RoHS 2.0, WEEE | VPN/RobustVPN Routing Protocol Firewall SDK + APP | Web/CLI/ USB/SMS/ RCMS |

| R2000 Cellular Routers | Model |  | Cellular                                                                            | SIM            | Cellular Antenna | Ethernet | Serial                              | Analog Input                                            | USB | I/O             | Bluetooth                   | MicroSD                                                          | POE                            | LED Indicators                                              | GNSS                                                                                | Wi-Fi                             | Power Supply Input Range          | Mounting                                         | Dimension Weight                  | Operating Temperature                                                       | Approval     | Software                                                                                                                                                               | Firmware Upgrade                                           |                          |
|------------------------|-------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------|------------------|----------|-------------------------------------|---------------------------------------------------------|-----|-----------------|-----------------------------|------------------------------------------------------------------|--------------------------------|-------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------|-----------------------------------|--------------------------------------------------|-----------------------------------|-----------------------------------------------------------------------------|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|--------------------------|
|                        | R2010 | R2010-4L                                                                            |  | 4G TDD/FDD LTE | 2                | 1 or 2   | 2 x LAN<br>or 1 x WAN<br>1 x LAN    | 1 x RS232<br>or<br>1 x RS485<br>(software configurable) | N/A | N/A             | 1 x DI<br>1 x DO            | N/A                                                              | N/A                            | Optional,<br>1 x PD<br>802.3at                              | 6 includes<br>1 x RUN,<br>1 x MDM,<br>1 x WiFi,<br>3 x RSSI                         | N/A                               | Supports AP<br>and<br>Client mode | 9 to 36 VDC                                      | Din-Rail<br>Wall-Mount<br>Desktop | 127 x 82 x 30 mm,<br>350g,<br>Metal housing                                 | -35 to +75°C | CE, UKCA, RCM, Telec,<br>JATE, E-Mark, FCC, IC,<br>TDRA, PTCRB, URSEC, ENACOM<br>ANATEL, CRC, SUBTEL,<br>MTC, ARCTEL, NTC*<br>AT&T<br>RoHS 2.0, WEEE<br>(*In progress) | VPN/RobustVPN<br>Routing Protocol<br>Firewall<br>SDK + APP | Web/CLI/<br>SMS/<br>RCMS |
|                        | R2011 | R2011-4L                                                                            |  | 4G TDD/FDD LTE | 2                | 1 or 2   | 1 x WAN<br>4 x LAN<br>or<br>5 x LAN | N/A                                                     | N/A | N/A             | N/A                         | N/A                                                              | Optional,<br>1 x PD<br>802.3at | 6 includes<br>1 x RUN,<br>1 x MDM,<br>1 x WiFi,<br>3 x RSSI | N/A                                                                                 | Supports AP<br>and<br>Client mode | 9 to 36 VDC                       | 127 x 82 x 30 mm,<br>350g,<br>Metal housing      |                                   | CE, UKCA, RCM, TDRA,<br>E-MARK, ANATEL*<br>RoHS 2.0, WEEE<br>(*In progress) |              |                                                                                                                                                                        |                                                            |                          |
|                        | R2110 | R2110-4L                                                                            |  | 4G TDD/FDD LTE | 2                | 2        | 1 x WAN<br>3 x LAN<br>1,000 Mbps    | 1 x RS232<br>1 x RS485                                  | N/A | 1 x USB<br>host | 1 x DI<br>1 x DO<br>1 x ACC | Optional<br>BLE 5.0<br>Compatible<br>with<br>BLE 4.2,<br>BLE 4.0 | 1                              | Optional,<br>1 x PD<br>port<br>802.3at                      | 6 includes<br>1 x RUN,<br>1 x MDM,<br>1 x USB,<br>1 x RSSI,<br>1 x NET,<br>1 x WiFi | Optional                          | supports AP<br>and<br>Client mode | 9 to 36 VDC<br>(POE-PD)<br>10 to 30 VDC<br>(ACC) |                                   | 125 x 100 x 48mm,<br>500g,<br>Metal housing                                 |              | Normal operation:<br>-20 to +55°C<br>Extended operation:<br>-25 to +70°C                                                                                               |                                                            |                          |

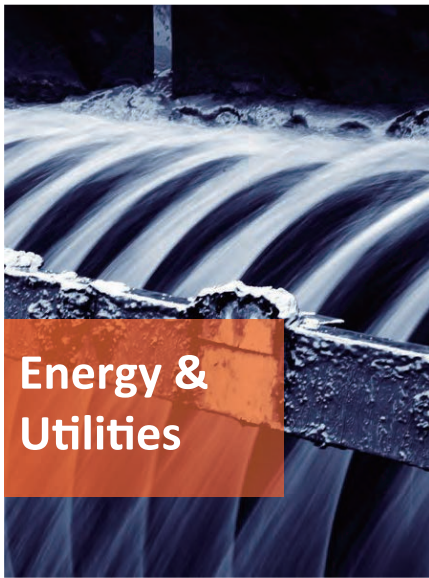
| R1500 Cellular Routers | R1510 | R1510-4L    |   | LTE Cat-1/ 4G TDD/FDD LTE | 1 | 2 | 1 x WAN 1 x LAN or 2 x LAN | N/A                    | N/A | N/A | 1 x DI 1 x DO | N/A | N/A | N/A                 | 5 includes 1 x RUN, 1 x MDM, 1 x USB, 1 x RSSI, 1 x WIFI | N/A | Supports AP and Client mode | 9 to 36 VDC | Din-Rail Wall-Mount Desktop | 91.5 x 91.5 x 31.5 mm, 150g, Plastic housing | -25 to +70°C | CE, UKCA, RCM, Telec, TDRA, JATE, ICASA, CRC, URSEC, CB, NOM, E-Mark, SIRIM, SUBTEL, MTC, ENACOM, ARCTEL RoHS 2.0, WEEE                                                                               | VPN/RobustVPN Routing Protocol Firewall SDK + APP | Web/CLI/ SMS/ RCMS |
|------------------------|-------|-------------|---------------------------------------------------------------------------------------|---------------------------|---|---|----------------------------|------------------------|-----|-----|---------------|-----|-----|---------------------|----------------------------------------------------------|-----|-----------------------------|-------------|-----------------------------|----------------------------------------------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|--------------------|
|                        | R1511 | R1511-4L    |  | LTE Cat-1/ 4G TDD/FDD LTE | 1 | 2 | 1 x WAN 1 x LAN or 2 x LAN | 1 x RS232 or 1 x RS485 | N/A | N/A | N/A           | N/A | N/A | N/A                 | 5 includes 1 x RUN, 1 x MDM, 1 x USB, 1 x RSSI, 1 x WLAN | N/A | Supports AP and Client mode | 9 to 36 VDC |                             | 91.5 x 91.5 x 31.5mm 150g, Plastic housing   | -25 to +70°C | CE, UKCA, RCM, PTCRB, FCC, IC, Telec, JATE, CB AT&T, Verizon, SIRIM*, RoHS 2.0, WEEE                                                                                                                  |                                                   |                    |
|                        | R1520 | R1520-4L(s) |  | 4G TDD/FDD LTE            | 2 | 2 | 1 x WAN 4 x LAN or 5 x LAN | 1 x RS232 1 x RS485    | 1   | 1   | 1 x DI 1 x DO | N/A | N/A | 1 x PD port 802.3at | 5 includes 1 x RUN, 1 x MDM, 1 x USB, 1 x RSSI, 1 x WIFI | N/A | Supports AP and Client mode | 9 to 36 VDC | Din-Rail Wall-Mount Desktop | 105 x 90 x 46 mm, 250g, Plastic housing      | -25 to +70°C | CE, UKCA, FCC, RCM, Telec, JATE, IC, E-Mark, TDRA, SIRIM, ICASA, CB, RoHS 2.0, WEEE, ANATEL, NTC*                                                                                                     |                                                   |                    |
|                        |       | R1520-4L(v) |                                                                                       | 4G TDD/FDD LTE            | 2 | 2 | 1 x WAN 4 x LAN or 5 x LAN | 1 x RS232 1 x RS485    | 1   | 1   | 1 x DI 1 x DO | N/A | N/A | 1 x PD port 802.3at | 5 includes 1 x RUN, 1 x MDM, 1 x USB, 1 x RSSI, 1 x WIFI | Yes | Supports AP and Client mode | 9 to 36 VDC |                             | 105 x 90 x 46 mm, 250g, Plastic housing      | -25 to +70°C | E-Mark, RCM, CE, UKCA, FCC, ICASA, IC, NTC, IMDA, NBTC, SIRIM, MTC, PTCRB, Anatol, SUBTEL, KC, ARCTEL, CRC, ENACOM, URSEC, NOM, TDRA, POSTEL, CB, Verizon, AT&T, Rogers, RoHS 2.0, WEEE(*In progress) |                                                   |                    |



# Robustel Use Cases



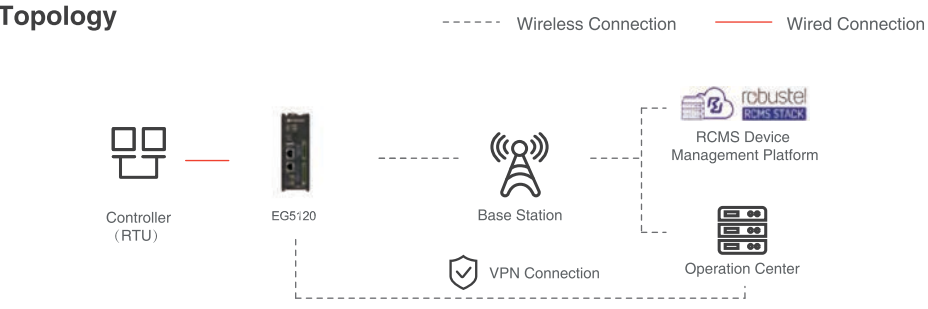
# Robustel Use Cases



### Urban Water Supply Pipeline Monitoring Solution

Monitor urban water supply pipelines in real-time using a controller (RTU) connected to sensors and solenoid valves. The RTU is linked to the Robustel industrial IoT gateway, which collects and transmits data (pressure, flow, valve status) to a monitoring center via 4G LTE network. This ensures effective management and maintenance of the water supply system, reducing downtime and improving efficiency.

**Topology**

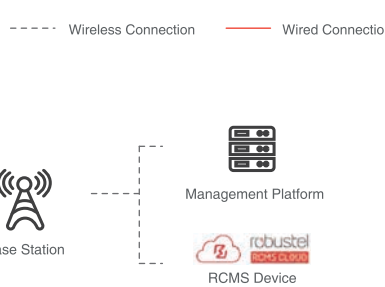


The diagram shows a Controller (RTU) connected via a wired connection to an EG5120 gateway. The gateway is connected via a wireless connection to a Base Station, which then connects to the Robustel Cloud Manager Service (RCMS) Device Management Platform and an Operation Center via a VPN connection.

### Bus Passenger Wi-Fi Solution

Robustel Passenger Wi-Fi system offers seamless connectivity and improved passenger experience for travelers. The Robustel IIoT Gateway is connected to the Internet through a cellular network, providing high-speed Wi-Fi access services for bus passengers through 2.4 GHz or 5 GHz Wi-Fi, with a powerful, flexible and very cost-effective content filtering service, awarded the “Friendly Wi-Fi” seal of approval.

**Topology**



The diagram shows a Passenger connected via a wireless connection to an R5020 gateway. The gateway is connected via a wireless connection to a Base Station, which then connects to the Robustel Cloud Manager Service (RCMS) Device Management Platform and a Management Platform via a VPN connection.

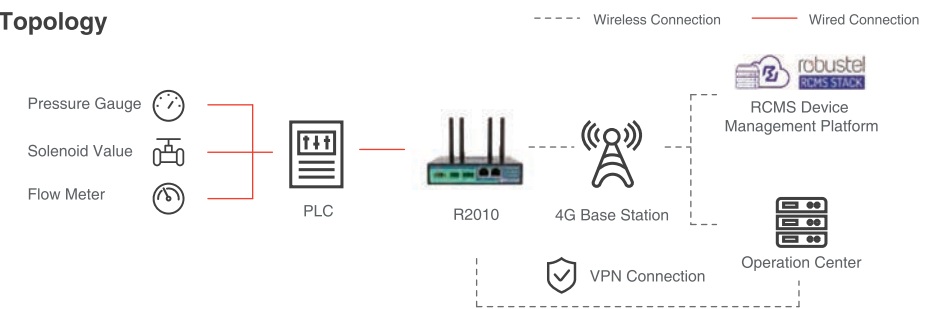




### Urban Natural Gas Pipeline Remote Monitoring Solution

Robustel IIoT Gateway provides a wireless cellular communication solution for monitoring gas pipelines. By collecting data from pressure sensors, flow sensors, and PLCs via serial ports, it reports real-time status data and alarm information to the gas supply company's operation center through a 4G LTE network. This enables intelligent decision-making for natural gas resource scheduling and pipeline maintenance, ensuring a stable and reliable gas supply.

**Topology**



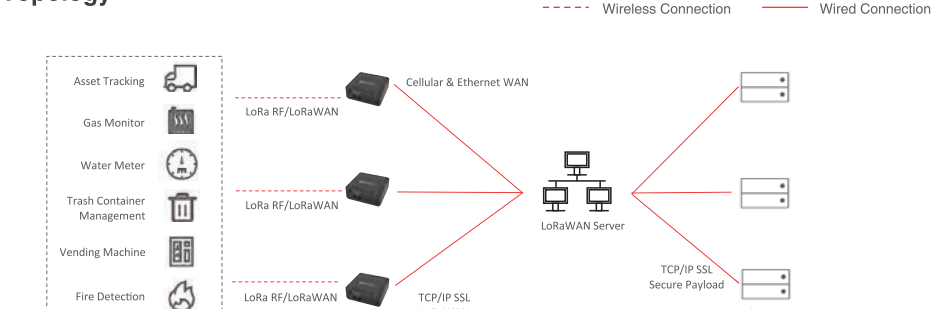
The diagram shows a Pressure Gauge, Solenoid Valve, and Flow Meter connected via a wired connection to a PLC. The PLC is connected via a wired connection to an R2010 gateway. The gateway is connected via a wireless connection to a 4G Base Station, which then connects to the Robustel Cloud Manager Service (RCMS) Device Management Platform and an Operation Center via a VPN connection.



### Smart Building Management via LoRaWAN Solution

IoT deployments for Building Management Systems (BMS) frequently encounter obstacles like limited connectivity options, high deployment costs, scalability issues, and power constraints. These challenges can hinder the effective monitoring and management of building systems.

**Topology**

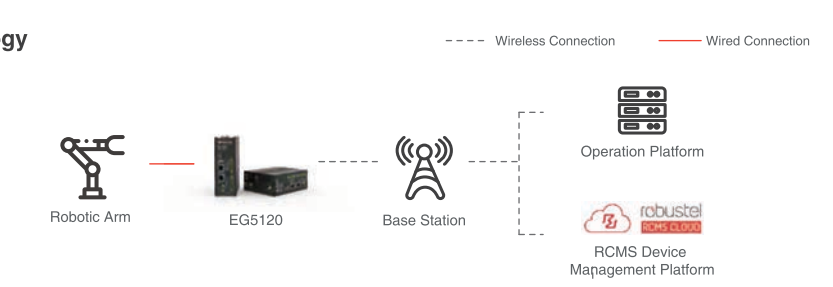


The diagram shows various IoT devices (Asset Tracking, Gas Monitor, Water Meter, Trash Container Management, Vending Machine, Fire Detection) connected via LoRa RF/LoRaWAN to a LoRaWAN Server. The server is connected via a wired connection to a TCP/IP SSL Secure Payload and an Application Server.

### Industrial Robot Networking Solution

Industrial robotic arms can now benefit from wireless networks, saving costs and ensuring safety. With Robustel IIoT Gateway, data transmission is stable and low-latency, providing the necessary support for large amounts of data. By connecting to the operation platform and our RCMS device management platform through a private 5G network, real-time operational data can be collected and reported, improving maintenance service capabilities.

**Topology**



The diagram shows a Robotic Arm connected via a wired connection to an EG5120 gateway. The gateway is connected via a wireless connection to a Base Station, which then connects to the Robustel Cloud Manager Service (RCMS) Device Management Platform and an Operation Platform via a VPN connection.

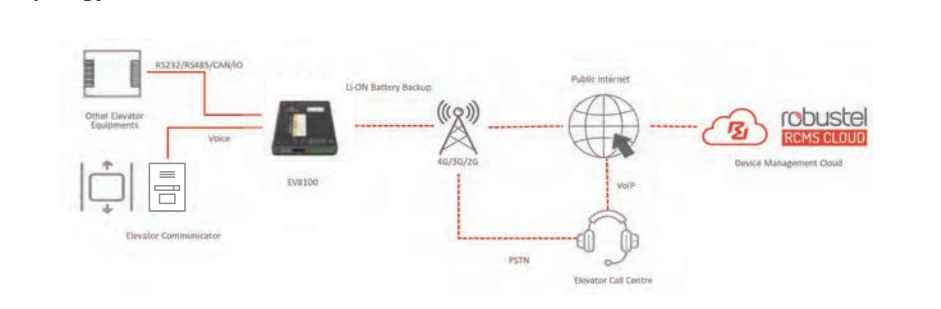




### Elevator IoT Solution

In the elevator industry, safety reigns supreme. Reliable and efficient communication systems are the lifeline for passenger safety, making seamless and uninterrupted communication indispensable, especially during emergencies. With safety at the heart of elevator operations, ensuring continuous connectivity becomes paramount.

**Topology**



The diagram shows an Elevator Communicator connected via a wired connection to a 4G LTE Gateway. The gateway is connected via a wireless connection to a 4G LTE Base Station, which then connects to the Robustel Cloud Manager Service (RCMS) Device Management Platform and an Operation Center via a VPN connection.



# Robustel Cloud Manager Service



### Robustel Cloud Manager Service

Robustel Cloud Manager Service (RCMS) is a modular IoT cloud software platform compatible with all Robustel products. RCMS is designed from the ground-up to empower Robustel customers to build their IoT Solution (s) in a manner that is scalable, cost effective and can evolve quickly with the market. Designed to work hand-in-hand with RobustOS, RCMS unlocks the true potential of Robustel products giving customers the ultimate range of monitoring, management and control functions.



**Monitor**

The RobustLink APP inside RCMS gives you visibility of your entire Robustel device fleet in a single location from anywhere in the world. View device status, signal strength, data usage and WAN details for any device connected to the touch of a button.



**Manage**

Use the RobustLink APP inside RCMS to access your devices remotely to change configuration parameters or send device commands through remote Command Line Interface (CLI) access. Maintain your fleet through Over-the-Air (OTA) updates for Firmware, APPS and Configuration files in bulk or for a single device.



**Control**

Use the RobustVPN App inside RCMS to create a virtual LAN for your devices that can be accessed securely from anywhere in the world using the preconfigured desktop VPN client.



# GATEWAY PRODUCT CATALOGUE

MAKE THINGS CONNECTED



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