

## WEB-SERVER SUPPORT

Remote users can control and manage the operation using a web browser over the Internet. With the rapid development of industrial process control and the wide range of applications in network intelligence, it is necessary to make the data accuracy and reliability of a control system higher. This embedded Web-server can adapt to the strict requirements of the data acquisition and control systems such as the function, reliability, cost, size, power consumption, and remote access.

The new Remote PLC is operated by an embedded web server to acquire the signals and control the devices remotely.



## Highlights and features

- The largest amount of program memory in its class
- Built-in micro SD Card slot
- Excellent communication capabilities: Built-in ports - Ethernet, RS485 and another 2 extra with accessories - RS485 and RS232 / RS485
- Ability to increase number of I/O at any time with expansion modules
- High-speed inputs and outputs (PWM)
- LCD can be used as text and pseudo-graphic HMI (only in Ladder mode)

### Configurable Analog Inputs

Analog inputs can be configured for either 0-10V or 0/4-20 mA sensors. This is accomplished by connecting the AI block in the environment xLogicSoft program.

### 2G/4G/GSM/GPRS Features

- GPRS (4G), SMS, Email and CLIP support
- Parameters in the program changing by means of SMS via cell - phone
- Remote configuration via GPRS and user friendly software

## PRODUCT LIST

### MQTT PLC Expandable (PR-E-16 up to 16 pcs.)

Model	Power	Inputs	Outputs	None HSI	None HSO	LAN	2G/4G/GSM	2G/GSM	2G/4G/GSM	NO GSM	Wi-Fi
PR-12AC-R-N	110-240V AC	8	4 Relay (10A)	None HSI	None HSO	LAN					
PR-12DC-DA-R-N	12-24V DC	8 (4 DI/AI(0-10V))	4 Relay (10A)	4x60kHz HSI	None HSO	LAN					
PR-18AC-R-N	110-240V AC	12	6 Relay (10A)	None HSI	None HSO	LAN					
PR-18DC-DAI-R-N	24V DC	12 (6 DI/AI(0-10V) + 2 DI/AI (0-10V/0-20mA))	6 Relay (10A)	4x60kHz HSI	None HSO	LAN					
PR-18DC-DAI-TN-N	12-24V DC	12 (6 DI/AI(0-10V) + 2 DI/AI (0-10V/0-20mA))	6 Transistor (0.3A)	4x60kHz HSI	2x10kHz HSO	LAN					
PR-23DC-PTDAI-RT-N	12-24V DC	13 (3 AI(PT100) + 6DI/AI + 4 DI)	8 Relay + 2 Transistor	4x60kHz HSI	2x10kHz HSO	LAN					
PR-23DC-PTDAI-RT-4G	12-24V DC	13 (3 AI(PT100) + 6DI/AI + 4 DI)	8 Relay + 2 Transistor	4x60kHz HSI	2x10kHz HSO	LAN	2G/4G/GSM				
PR-26AC-R-N	110-240V AC	16	10 Relay	None HSI	None HSO	LAN					
PR-26DC-DAI-RA-N	24V DC	16 (6 DI/AI(0-10V) + 2 DI/AI (0-10V/0-20mA))	8 Relay + 2 Analog (0-10V/0-20mA)	4x60kHz HSI	None HSO	LAN					
PR-26DC-DAI-RT-N	24V DC	16 (6 DI/AI(0-10V) + 2 DI/AI (0-10V/0-20mA))	8 Relay + 2 Transistor	4x60kHz HSI	2x10kHz HSO	LAN					
PR-26DC-DAI-RT-2G	24V DC	16 (6 DI/AI(0-10V) + 2 DI/AI (0-10V/0-20mA))	8 Relay + 2 Transistor	4x60kHz HSI	2x10kHz HSO	LAN	2G/GSM				
PR-26DC-DAI-RT-4G	24V DC	16 (6 DI/AI(0-10V) + 2 DI/AI (0-10V/0-20mA))	8 Relay + 2 Transistor	4x60kHz HSI	2x10kHz HSO	LAN	2G/4G/GSM				
PR-26DC-DAI-RT-WIFI	24V DC	16 (6 DI/AI(0-10V) + 2 DI/AI (0-10V/0-20mA))	8 Relay + 2 Transistor	4x60kHz HSI	2x10kHz HSO	LAN	NO GSM			Wi-Fi	
PR-26DC-DAI-RT-4GWIFI	24V DC	16 (6 DI/AI(0-10V) + 2 DI/AI (0-10V/0-20mA))	8 Relay + 2 Transistor	4x60kHz HSI	2x10kHz HSO	LAN	2G/4G/GSM			Wi-Fi	

\*HSI - High Speed Inputs

\*HSO - High Speed Outputs

## Accessories

PR-COPIER	PR-COPIER can be used to save user program and download program into CPUs.
PR-BATTERY	Battery for RTC (backup 3 years)
PR-MEMORY	For Data Logging on a microSD Card
PRO-RS485	Converter Universal Port -> RS485 Port
RS232 Cable	Cable RS232 -> micro PLC. RS232 Cable can also be used as connection cable between Micro PLC and Modbus devices
USB Cable	Cable USB -> micro PLC

## Extension Modules

PR-E-16AC-R	8 digital inputs and 8 Relay Outputs (4x3A + 4x10A)
PR-E-AC-IN	16 digital inputs
PR-E-AC-DO	16 Relay Outputs (15x3A + 1x10A)
PR-E-AI -V/I	4 analog inputs (0-10V or 0/4-20mA)
PR-E-PT100	3 analog inputs (thermoresistor PT100)
PR-E-AQ-VI	2 analog outputs (0-10V/0-20mA)
PR-E-16DC-DA-R	8 digital (4 analog - 0-10V) inputs and 8 Relay Outputs (4x3A + 4x10A)
PR-E-DC-IN	16 digital (4 analog - 0-10V) inputs
PR-E-DC-DO	16 Relay Outputs (15x3A + 1x10A)
PR-E-16DC-DA-TN	8 digital (4 analog - 0-10V) inputs and 8 Transistor Outputs
PR-RS485	Additional RS485 Port

## Service and Customer Support

Our customers can count on Rievtech support throughout the service life of every product:

- Technical Support
- On-Site Support
- Tutorial Materials
- Local Support (Application Expertise)
- R&D Support

## International Acceptance



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# RIEVTECH

Advanced • Powerful • Effective • Affordable

PR-12N, PR-18N  
Ethernet PLC



Ready for Industry 4.0 and IIoT

PR-23N, PR-26N  
Ethernet, GSM (4G), Wi-Fi PLC



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# REMOTE PLC

Control. Anytime. Anywhere.





# UNLIMITED POSSIBILITIES

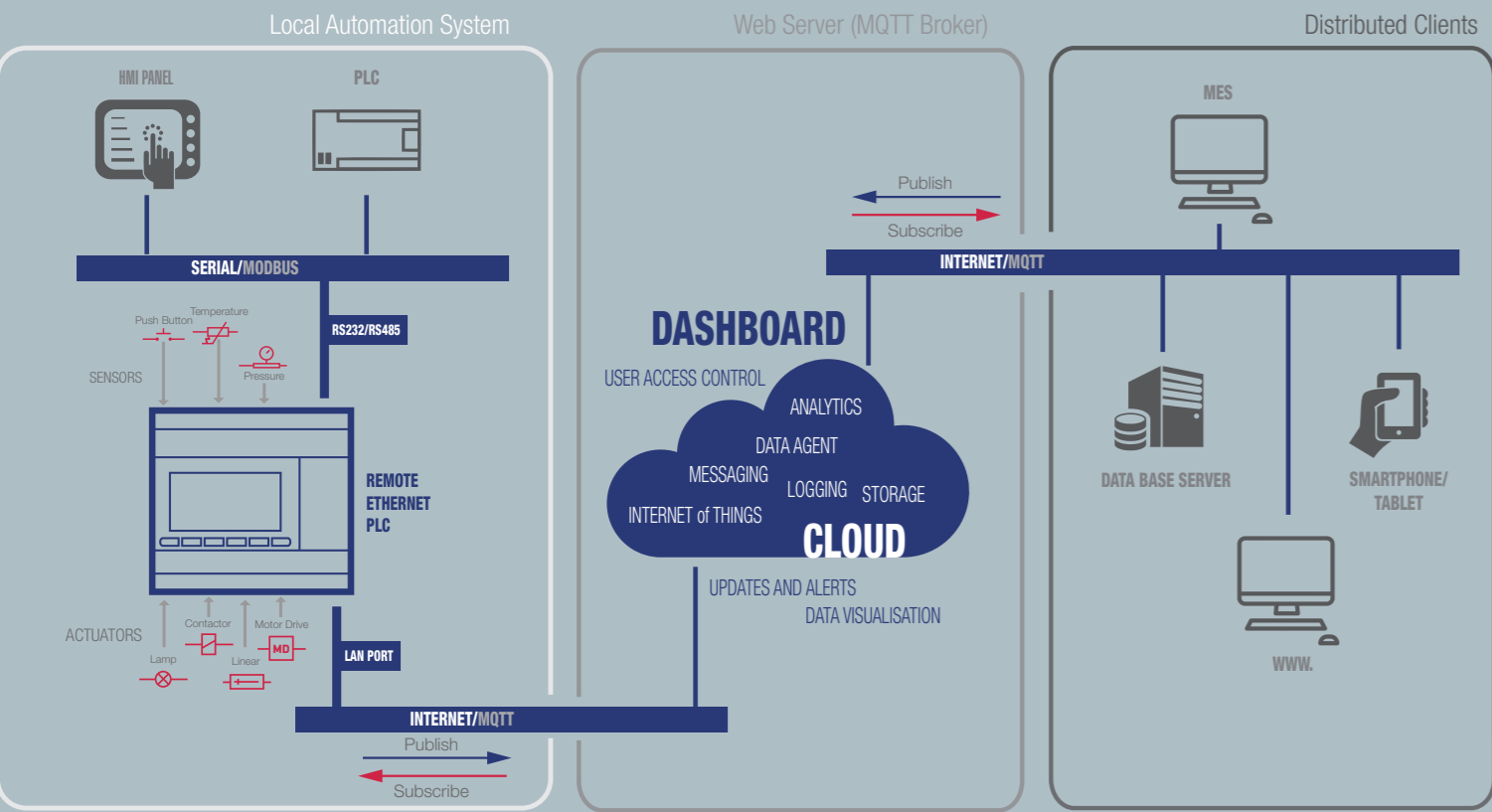
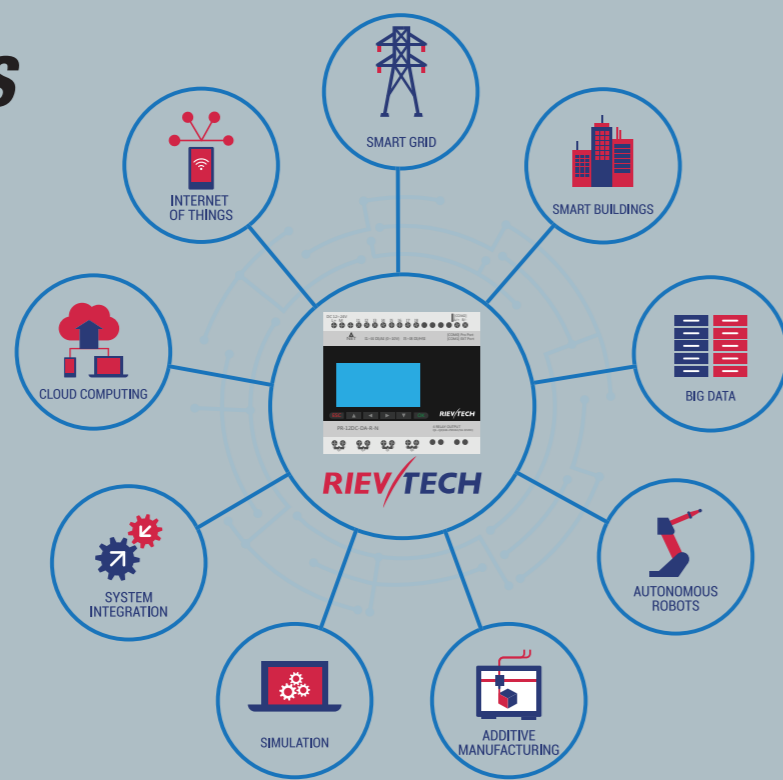
## WITH PR-N SERIES

The ability to receive or send the necessary data at any time, regardless of its location, provides ample opportunities. Popularity IoT using cloud services and innovative protocols such as MQTT, is increasingly gaining momentum in the IT-industry and implemented in the automation of processes as well.

### ALL-IN-ONE DEVICE

There is no need to use additional communication modules and modems. Which take up extra space and effort for configuration.

Writing a control program, setting up communication channels and debugging occur in the same software environment.



### Advantages of MQTT

- low consumption of traffic;
  - the connection between the client and the server is always open;
  - does not load the Internet channel;
  - absence of delays in data transmission;
  - a convenient system of subscriptions to topics;
- Applications engineers have a lot of flexibility using the data an PLC produces as an MQTT publisher.

### Free Programming Software

Programming Soft allows you easy programming and configuration of each PLC directly from your PC or Laptop. Depending on your preference, you can choose FBD or LAD (or STL) for PLC programming (xLogicSoft or xLadder accordingly).

### User defined blocks LID

Break programs into manageable pieces, and enable re-usability of code. Supports the creation of a library with subprograms that can be up- or downloaded. You can access and modify the content of your macro functions, or choose to protect them with a password. In addition to the fact that different standard FBD blocks can be used in the LID block, you can also combine various input and output signals - discrete / analog.



### ETHERNET PLC

Ethernet is the fastest growing segment of industrial networking, allowing reliable access-from-anywhere capability and easy remote-data archiving. Now you can monitor status in real-time, receive email alerts and control processes. Using the Modbus TCP protocol (Client or Server Mode) and MQTT, Ethernet PLCs will easily integrate into existing networks and provide a simple, cost effective solution for your application.

### MQTT PROTOCOL SUPPORT

The new Remote PLCs have the ability to aggregate data and send it to any suitable Cloud service using MQTT. MQTT is a lightweight, Pub/Sub messaging protocol typically used to connect hardware to the Cloud. No more need for intermediate Gateway devices!

### FREE SCADA - easyScada

- Manage multiple sites, equipment and users
- Visualize data from remote installations
- Manage alarms and events
- Analyze trends and performance

Connect your SCADA to your remote sites.

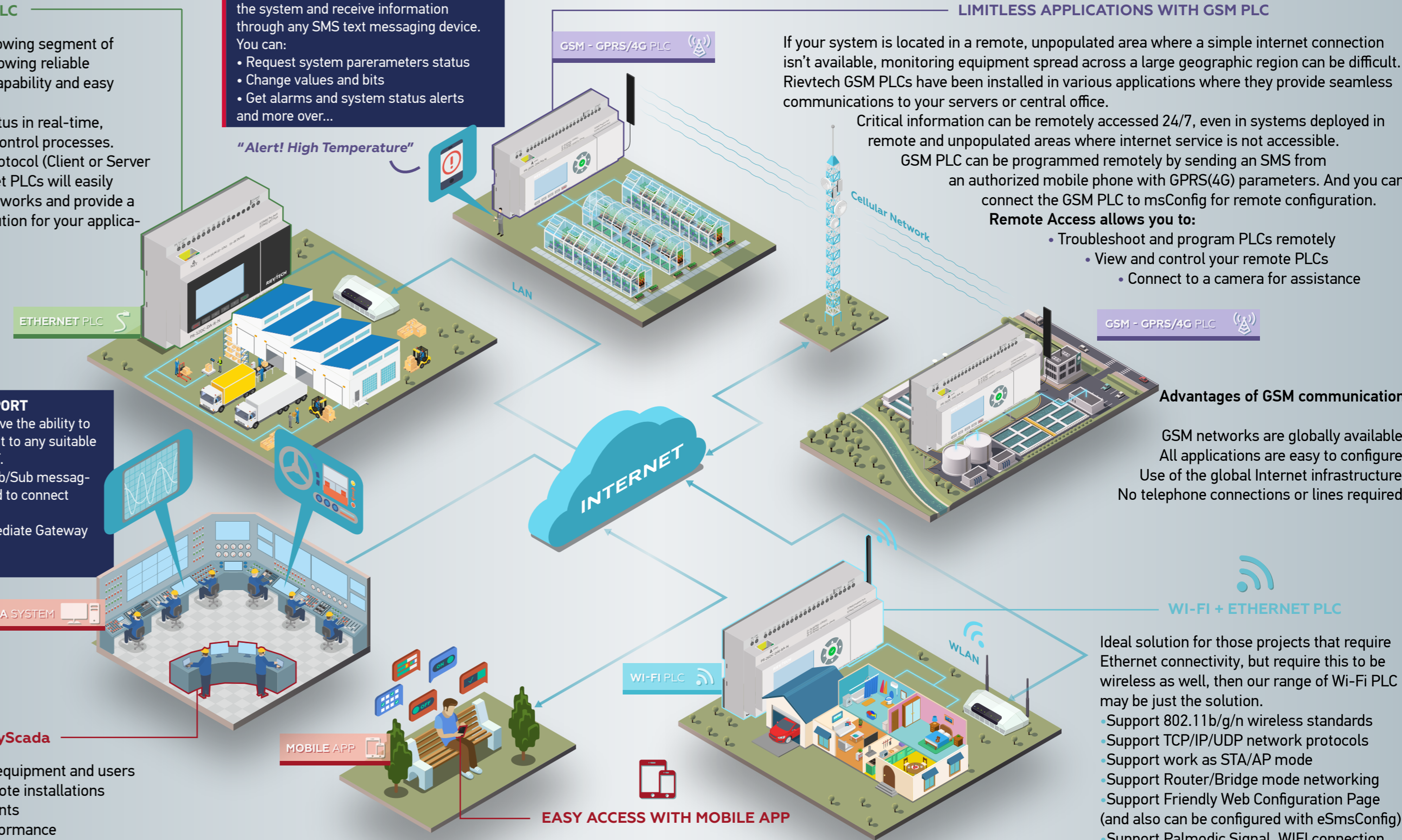
easyScada provides drives for direct communication with PLCs project. PR and EXM series CPU via RS232, RS485, Ethernet/GPRS(4G). Available protocol is MODBUS RTU/TCP. easyScada provides abundant resources. The picture library of easyScada includes 3D indicator light, 3D button, television, 3D tank, 3D pipe, electron, bars, and the like. easyScada also provides controls that have abundant functions, such as trend diagram and alarming controls and the like, meeting the requirements of various configurations.

### SMS TRANSMISSION FUNCTION

GSM PLC Users can conveniently control the system and receive information through any SMS text messaging device. You can:

- Request system parameters status
- Change values and bits
- Get alarms and system status alerts and more over...

"Alert! High Temperature"



### LIMITLESS APPLICATIONS WITH GSM PLC

If your system is located in a remote, unpopulated area where a simple internet connection isn't available, monitoring equipment spread across a large geographic region can be difficult. Rievtech GSM PLCs have been installed in various applications where they provide seamless communications to your servers or central office.

Critical information can be remotely accessed 24/7, even in systems deployed in remote and unpopulated areas where internet service is not accessible.

GSM PLC can be programmed remotely by sending an SMS from an authorized mobile phone with GPRS(4G) parameters. And you can connect the GSM PLC to msConfig for remote configuration.

### Remote Access allows you to:

- Troubleshoot and program PLCs remotely
- View and control your remote PLCs
- Connect to a camera for assistance

### Advantages of GSM communication

GSM networks are globally available  
All applications are easy to configure  
Use of the global Internet infrastructure  
No telephone connections or lines required

### WI-FI + ETHERNET PLC

Ideal solution for those projects that require Ethernet connectivity, but require this to be wireless as well, then our range of Wi-Fi PLC may be just the solution.

- Support 802.11b/g/n wireless standards
- Support TCP/IP/UDP network protocols
- Support work as STA/AP mode
- Support Router/Bridge mode networking
- Support Friendly Web Configuration Page (and also can be configured with eSmsConfig).
- Support Palmodic Signal, WIFI connection instruction Outdoor 100m with 3dBi antenna and indoor 40m;

Wifi plc is a reliable and cost effective alternative to new cable paths for remote control technology, particularly when installing new system parts or replacing defective communication cables.

Safe and fast data transmission even in difficult industrial environment.

Monitor and control your application from your smartphone or tablet.

The free of charge xLogic App enables you to monitor actual process values of your remote PLC application with a Android smart phone via WLAN or Internet. It allows to switch digital signal (digital flag, outputs) and adjust analogue values (analog outputs, analog flags, REGs). Supported will be the WLAN connection to a Ethernet module via IP address typically or Dyn DNS-names which are used in Internet. xLogic App is a convenient way to control and monitor your PLC from your smartphone!