



# Serial device servers and gateways

Your gateway to the digital age

# Serial device servers and gateways

The Phoenix Contact family of serial device servers and gateway converters provides a simple way to migrate legacy serial devices and buses to modern Ethernet networks.

With a wide operating temperature range (-40 to +70°C) and hazardous-area approvals, the devices are suitable for use in any industry. The most common industrial protocols are supported with various combinations of RAW/ASCII serial data, Modbus RTU, TCP/IP, Modbus TCP, and EtherNet/IP™ technology.

**EtherNet/IP™**

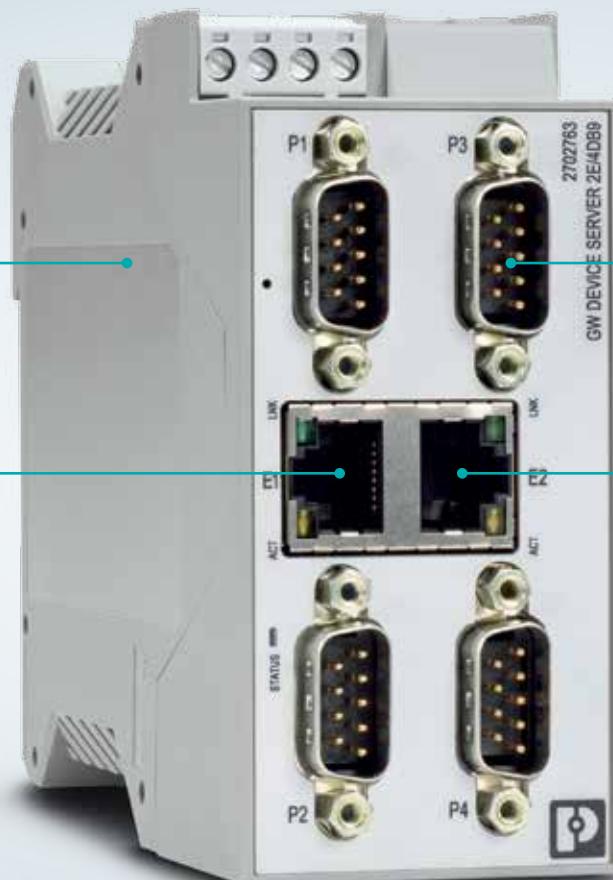


Small footprint on high port count

Multiport options for easy expandability

Built-in web server with advanced diagnostics

Support for major Ethernet protocols



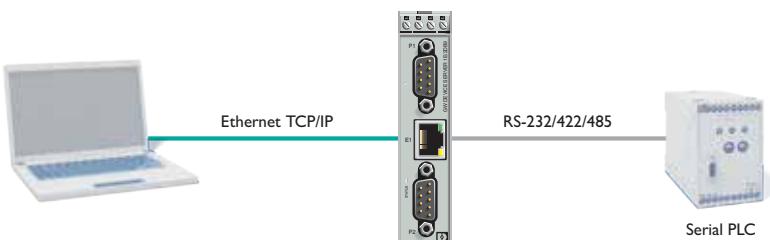
## Serial device server

A serial device server, or terminal server, enables you to connect devices with an RS-232, RS-422, or RS-485 serial interface to a local area network (LAN). Device servers bring devices that have only serial interfaces available into the world of Ethernet, without disrupting the method used for communication.

### Applications: Interface with legacy PLC using an RS-232 interface

Today's laptops no longer come with native RS-232 ports and they require the PLC at a local level in order to communicate.

With a device server installed, you are able to add the PLC to an Ethernet network. The device server then creates a seamless virtual COM port driver and allows for AT commands to the PLC for diagnostics.



**Serial device server**

| Part number | Description              |
|-------------|--------------------------|
| 2702758     | GW DEVICE SERVER 1E/1DB9 |
| 2702760     | GW DEVICE SERVER 1E/2DB9 |
| 2702761     | GW DEVICE SERVER 2E/2DB9 |
| 2702763     | GW DEVICE SERVER 2E/4DB9 |



**ASCII to Modbus TCP gateway**

| Part number | Description                 |
|-------------|-----------------------------|
| 2702768     | GW MODBUS TCP/ASCII 1E/1DB9 |
| 2702769     | GW MODBUS TCP/ASCII 1E/2DB9 |
| 2702770     | GW MODBUS TCP/ASCII 2E/2DB9 |
| 2702771     | GW MODBUS TCP/ASCII 2E/4DB9 |

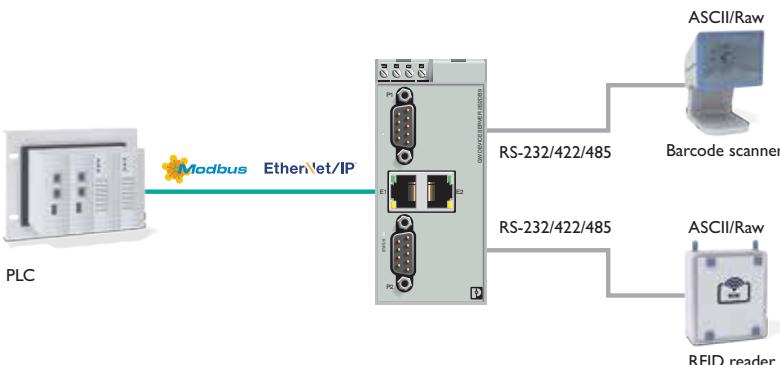
## Gateway

A gateway or protocol converter is used to convert the protocol of one device to a protocol suitable for the other device or tools to achieve the interoperability. This is sometimes referred to as a gateway, although a true gateway typically has higher functionality.

### Applications: Controlling serial devices with Ethernet-based PLCs

In an industrial application, controlling your costs can be a great way to get ahead. Shutting down idle machines can save power and increase security by limiting machine access to only authorized operators.

An operator can start the machine by scanning his or her ID badge. The RFID reader, typically serial, is connected to an EtherNet/IP-to-ASCII converter, which converts the ASCII string to EtherNet/IP. A Rockwell PLC will recognize authorized operators and start the machine.



**Modbus RTU/ASCII to Modbus TCP gateway**

| Part number | Description               |
|-------------|---------------------------|
| 2702764     | GW MODBUS TCP/RTU 1E/1DB9 |
| 2702765     | GW MODBUS TCP/RTU 1E/2DB9 |
| 2702766     | GW MODBUS TCP/RTU 2E/2DB9 |
| 2702767     | GW MODBUS TCP/RTU 2E/4DB9 |



**ASCII to EtherNet/IP gateway**

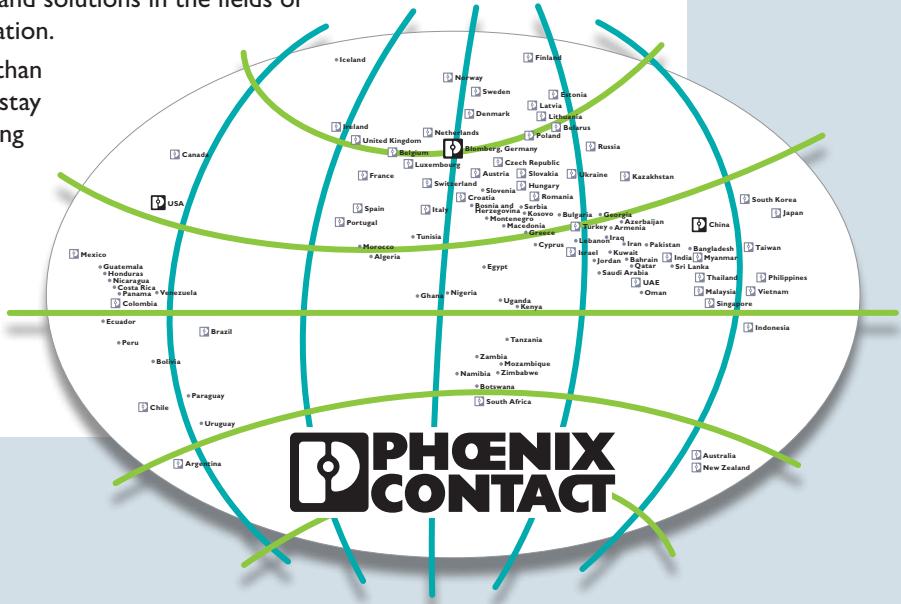
| Part number | Description          |
|-------------|----------------------|
| 2702772     | GW EIP/ASCII 1E/1DB9 |
| 2702773     | GW EIP/ASCII 1E/2DB9 |
| 2702774     | GW EIP/ASCII 2E/2DB9 |
| 2702776     | GW EIP/ASCII 2E/4DB9 |

## Ongoing communication with customers and partners worldwide

Phoenix Contact is a global, market leader based in Germany. Our group is known for its future-oriented components, systems, and solutions in the fields of electrical engineering, electronics, and automation.

With a global network reaching across more than 100 countries and 14,500 employees, we can stay in close contact with our customers, something we believe is essential to success. The wide variety of our innovative products makes it easy for our customers to find future-oriented solutions for multiple applications and industries. We especially focus on the fields of energy, infrastructure, process, and factory automation.

You will find our complete product range at:  
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