

ARTICLE
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Exploring ELPRO's Wireless Gateway Solutions: The 905U-G Series



ELPRO Technologies introduces its innovative 905U-G range wireless gateway series to address the critical need for efficient connectivity in industrial operations. These wireless gateways are designed to support a variety of industrial protocols, providing flexibility and compatibility across diverse applications. Whether it is PLC to PLC connections, SCADA systems, or remote PLC interfacing, the 905U-G series ensures reliable data transmission in real-time.

One of the standout features of the 905U-G series is its versatility. With support for multi-hop repeat five times and 900MHz spread spectrum technology, these gateways offer robust connectivity suitable for regions like North and South America, Australia and New Zealand, parts of Asia and the Middle East, and Africa.

The gateways come with a range of features tailored to meet the demands of industrial environments:

- **Industrial Protocols Compatibility:** The 905U-G series seamlessly interconnects similar and dissimilar industrial protocols, enabling efficient communication between different devices and systems.
- **Flexible I/O Configuration:** With eight onboard digital I/O points that can be configured as inputs or outputs, along with additional internal I/O points, the gateways offer flexibility in data acquisition and control.
- **Secure Communication:** Incorporating forward error correction, communications integrity checks, and security encryption, the 905U-G series ensures secure and reliable data transmission, crucial for safeguarding sensitive industrial processes.
- **Hazardous Area Approval:** The gateways hold Class I Div 2 hazardous area approval for the USA and Canada, making them suitable for use in challenging industrial environments.

The 905U-G series is available in various models, each tailored to specific industrial applications:

- **105/905U-G-MD1:** Designed for Modbus RTU and DF1 protocols, suitable for applications requiring up to 4300 I/O points.
- **105/905U-G-ET1:** Equipped with EtherNet IP and Modbus TCP support, ideal for high-speed data transmission with a maximum capacity of 2048 bytes input and output.
- **105/905U-G-PR1 and PR2:** Configured for Profibus DP Slave and Master respectively, offering seamless integration into Profibus networks with automatic baud rate detection.
- **105/905U-G-DE1:** Specifically, for DeviceNet Slave applications, featuring selectable baud rates and optically isolated RS422 communication.
- **105/905U-G-M+1:** Designed for Modbus Plus Slave applications, providing efficient data exchange with a standard baud rate of 1 Mbps.



ELPRO's 905U-G range wireless gateway series represents a significant advancement in industrial communication technology. With its versatile features, robust performance, and compatibility with various industrial protocols, the 905U-G series empowers industries to streamline operations, enhance efficiency, and ensure reliable connectivity across their networks. Whether it is establishing PLC connections, integrating SCADA systems, or facilitating remote monitoring, the 905U-G series delivers unparalleled performance, making it a cornerstone of modern industrial communication infrastructure.

Are you prepared to modernise your industrial operations? Grab this chance to optimise your processes and maintain a competitive edge in the market. Reach out to our experienced Triple i Sales Team today and embark on the journey towards a more interconnected future ELPRO Technologies.

Visit <https://www.triplei.com.au/sales/iiot-solutions/> for more information.