INDUSTRIAL WIRELESS BRIDGE

FOR BUS TRANSFER

EPITOME ELEKTRONIK GmbH
Pinnacle in Technology

Remote/Field PLC

Supporting Communication Protocols

PROFI NET®   CC-Link IE Control   ETHERNET POWERLINK

EtherCAT®   Modbus over RS485   PROFI BUS

sercos the automation bus   EtherNet/IP™   Modbus

Range upto 1 km

Modbus

I/O Chasis   **HMI**   **VFD**

Main Central Control Room PLC

Modbus

Remote/Field PLC

Range upto 1 km

Main Central Control Room PLC

PROFI NET®

PROFI NET®

HMI
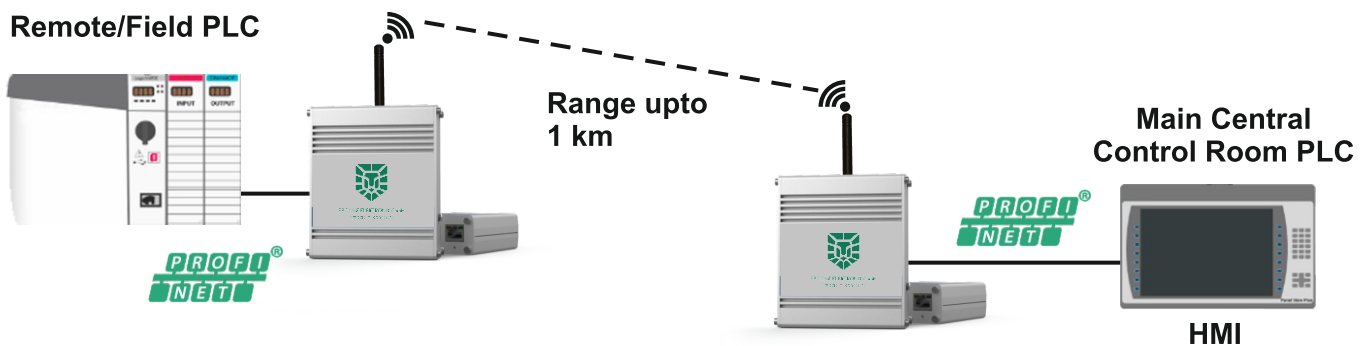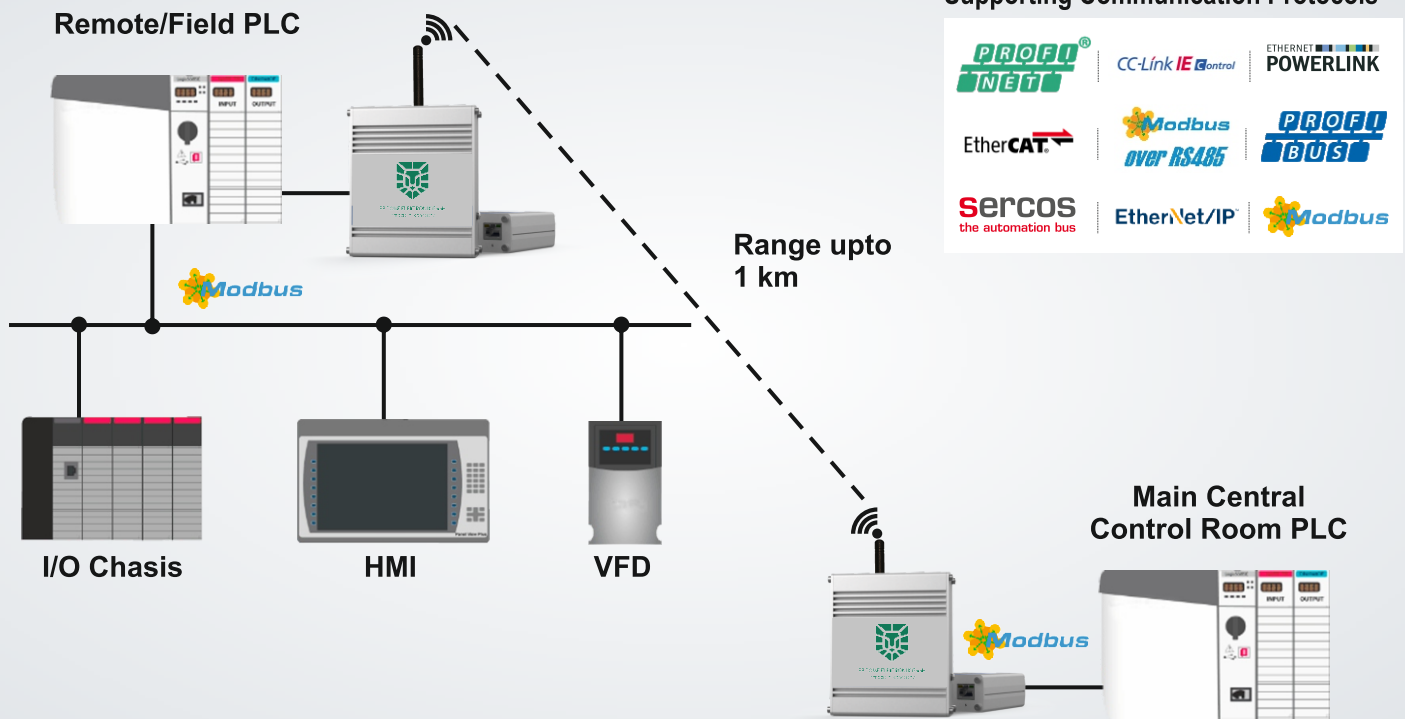
INDUSTRIAL WIRELESS BRIDGE

FOR BUS TRANSFER

The Industrial Wireless Bridge is a fully functional, extremely economical, Industrial bridge, capable of taking your parameters and factory data wirelessly to desired equipment / PLC. It accepts a variety of input physical media like RS485, Ethernet, Lorawan @868Mhz and carries the same to required industrial device like SCADA, HMI, PLC with WiFi@2.4GHz and 4G CAT M1 Modem.

The Wireless Bridge can be used for

- Data transfer with LORA up to 40 KM
- Bus Transfer from one device to another device.
- MODBUS RTU and TCP/IP, Client and Server.
- Bus transfer up to 40 Km with LORA
- Bus transfer unlimited distance with 4G Modem
- High speed data transfer with 2,4Ghz

The main feature of our bridge are

1. Main Processor.

- Dual-core 32-bit microprocessor.
- 4MB Flash , 520 KB SRAM.
- Speed - 80 to 240 MHz.

2. Communication Physical Layer

- WiFi 802.11b/g/n 20 dBm WPA/WPA2/WPA2 and WPS
- Bluetooth V4.2 BR/EDR and Bluetooth LE specification (optional)
- Modbus TCP/IP, RTU for additional data.
- Lora Device and Stack for communication up to 30 Km.
- 3G/4G Modem (Optional).
- Ethernet 100MBps.(Optional)

3. Data Security

- Certificate based authentication
- 256 bit Private and Public Key
- All keys are encrypted and stored in the device.

4. Approvals and Certifications

- RF certification: FCC/CE-RED/SRRC
- Bluetooth: BQB
- Complete Gateway - FCC/CE

5. Service offered

- Supply of Gateway equipment
- Configuration of the Wireless data transfer.
- Design of SCADA and HMI

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256-bit Encryption

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