

GENESYS



GATEWAY/ ROUTER

6LoWPAN BORDER ROUTER
/ GATEWAY with INTERNET
CONNECTIVITY and RS-485/422
TUNNELLING

Product Code: GEG-AM-200

GENESYS
ELECTRONICS DESIGN

CALL US ON +61 2 9496 8900

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6LoWPAN GATEWAY/ROUTER

The Genesys 6LoWPAN Gateway/Router provides a transparent RS-485/422 tunnel over a wireless IEEE 802.15.4 standard with 6LoWPAN connectivity.

When installed, the Gateway allows for transparent communication between RS-485/422 buses over a wireless network, eliminating the need for long cabling.

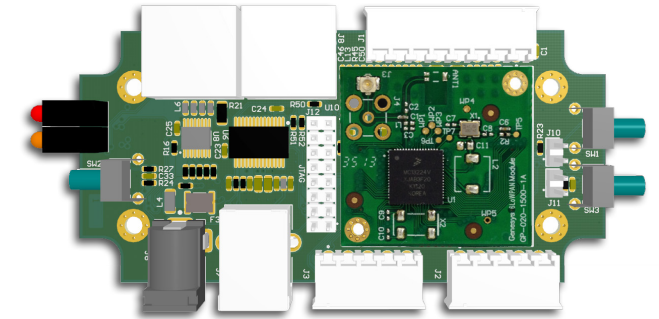
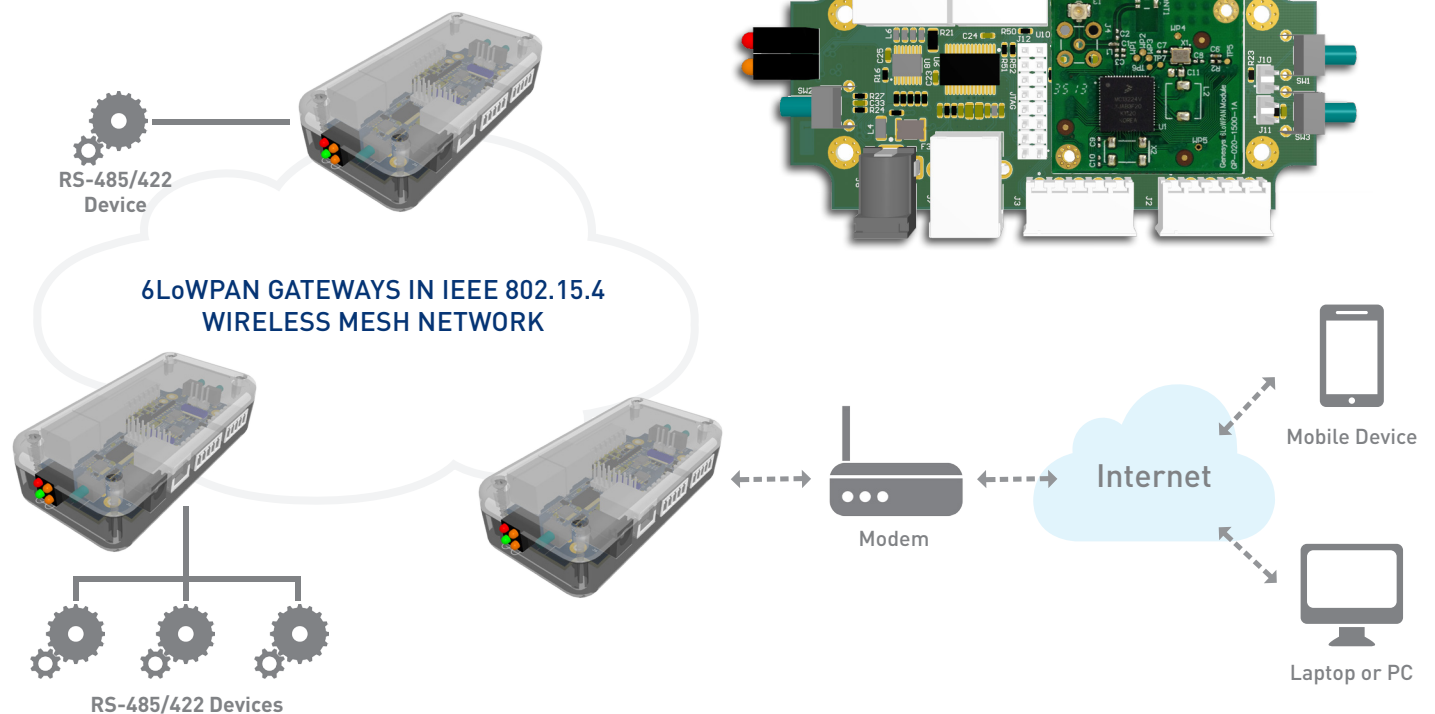
For example, control networks such as MODBUS can be elegantly installed with Internet connectivity via Modbus TCP.

IEEE 802.15.4 WIRELESS MESH NETWORK

Multiple 6LoWPAN Gateway/Routers form a wireless network mesh. Each node has its own intelligence, using an IPv6 stack, allowing for point-to-point communication between any two devices on the network.

MOBILE CONNECTIVITY

Via a connection to an external router, the 6LoWPAN Gateway/Router can output communications data to any mobile device or PC connected to the internet. Genesys can provide custom apps to suit the application.



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CHARACTERISTICS

WIRELESS NETWORK

- IEEE 802.15.4 full mesh network
- 6LoWPAN IPv6 enabled stack
- Supports drop-in, drop-out PnP

INTERNET CONNECTIVITY

- Transparent RS-485 connections between subnets via Internet
- Access and control of network from PCs or mobile devices via Internet
- Modbus TCP enabled

RS-485/422

- Transparent RS-485/422 to RS-485/422 data piping with full or half duplex capabilities
- Looping connector for multi-drop applications
- Power feed over RS-485/422 cable
- MODBUS RS-485/422 Master

I/O

- Protected I/O
- 2 A/D input channels 0 to 3V3
- 2 D/A output channels 0 to 3V3
- 2 Solid State Relay outputs 30V 1.2A
- 3 GPIO lines 0 to 3V3
- Supply Output (200mA)
- 3V3 Output (200mA)

USB

- USB serial port for PC or modem interface

STORAGE

- Dual on-board data backup EEPROMs
- EUI-48 48-bit Extended Unique Identifier

USER INTERFACE

- Dual TX/RX indicator LEDs
- Dual status indicator LEDs
- Two user pushbuttons
- Reset button
- Remote monitoring and control via mobile app

PHYSICAL

- Dimensions: 50 (W) by 100 (H) by 30 (D) mm
- Weight: 100 g

ENVIRONMENTAL

- Temperature (operating): -15°C to +55°C
- Temperature (survival): -55°C to +85°C
- Humidity (operating): 95% RH at 50°C

POWER

- Supply Voltage - 5VDC to 9VDC
- Power Consumption (Operating) - 300mW
- Power Consumption (Standby) - 50mW

