

GENESYS



GATEWAY/ ROUTER PRO

6LoWPAN BORDER ROUTER
/ GATEWAY with INTERNET
CONNECTIVITY, DUAL RS-485/422
TUNNELLING and USER INTERFACE

Product Code: GEG-AM-200P

GENESYS
ELECTRONICS DESIGN

CALL US ON +61 2 9496 8900

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6LoWPAN GATEWAY/ROUTER PRO

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

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

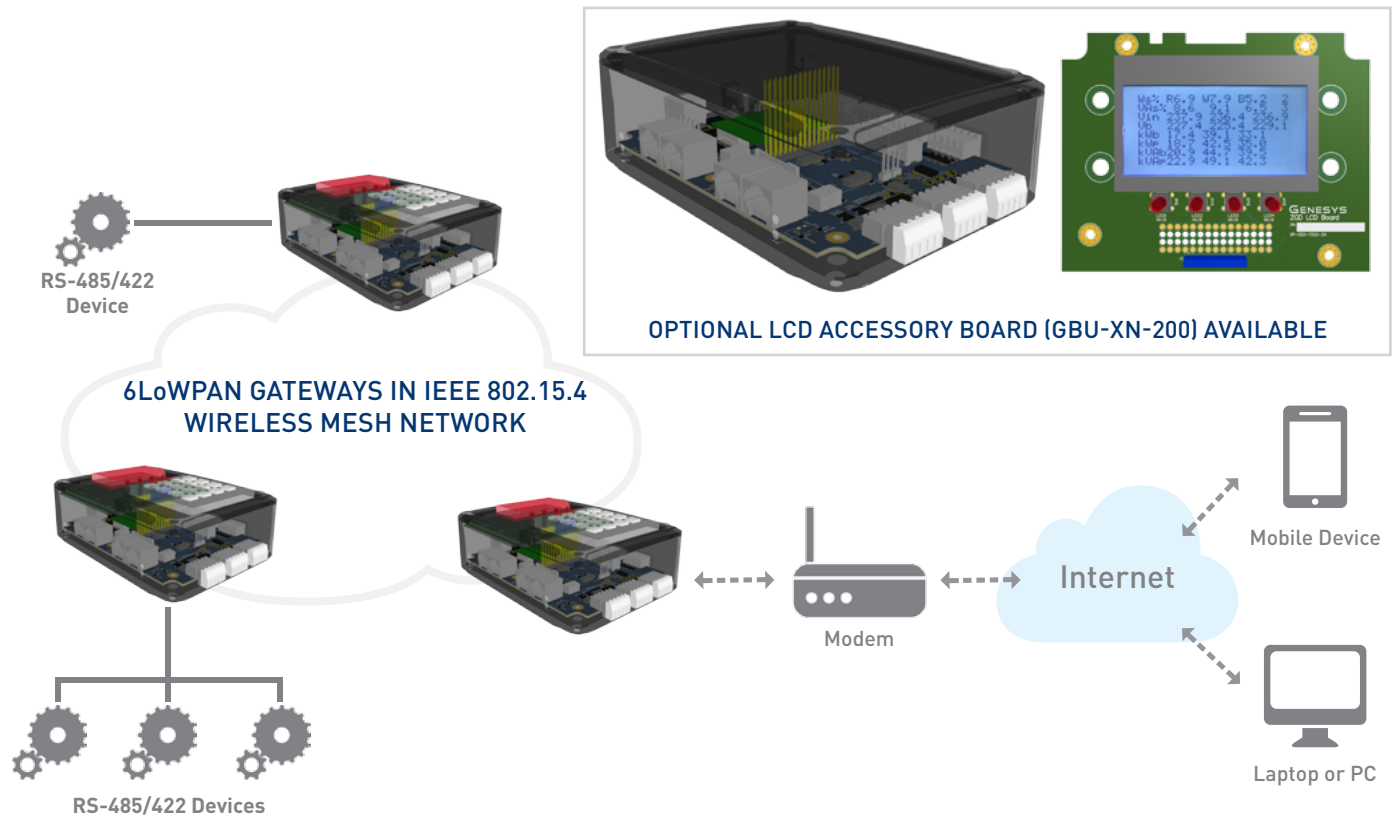
For example, control networks such as Modbus can be elegantly installed with Internet connectivity via Modbus TCP.

IEEE 802.15.4 WIRELESS MESH NETWORK

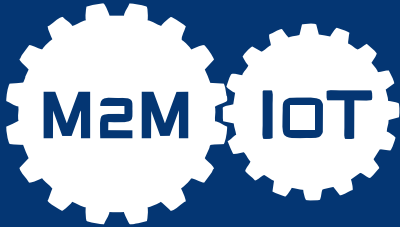
Multiple 6LoWPAN Gateway/Routers form a wireless network mesh. Each node has its own intelligence, using an IPv6 stack, allowing for point-to-point communication between any two devices on the network.

MOBILE CONNECTIVITY

Via a connection to an external router, the 6LoWPAN Gateway/Router Pro 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

- Multiple transparent RS-485/422 connections between subnets via Internet
- Access and control of network from PCs or mobile devices via internet
- Modbus TCP enabled

RS-485/422

- Dual 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 cable
- Modbus RS-485/422 Master

I/O

- 4 A/D input channels 0 to 3V3
- 2 D/A output channels 0 to 3V3
- 2 Solid State Relay outputs 30V 1.2A
- Up to 9 GPIO lines 0 to 3V3
- I2C and SPI ports 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

- 2 Dual TX/RX indicator LEDs
- Dual status indicator LEDs
- Two pushbuttons
- Reset button
- Remote monitoring and control via mobile app
- Optional accessory board with 128x64 monochrome back-lit LCD, 4 user LEDs and 4 user pushbuttons or a 4x4 keypad

PHYSICAL

- Dimensions: 110 (W) by 150 (H) by 50 (D) mm
- Weight: 350 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) - 500mW
- Power Consumption (Standby) - 50mW

