

# GENESYS



## MESHING NODE PRO

RUGGEDISED MESHING NODE  
with 6LoWPAN REPEATING  
FUNCTIONALITY, STAND ALONE  
OPERATION, UPS and GENESYS  
MODULAR STACK SUPPORT

Product Code: GEN-AM-201P

**GENESYS**  
ELECTRONICS DESIGN

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## 6LoWPAN MESHING NODE PRO

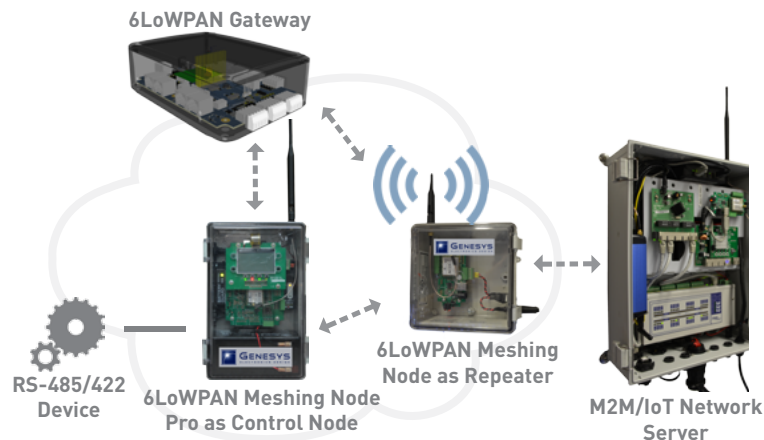
The Genesys 6LoWPAN Meshing Node Pro provides a powerful, stand-alone interface to the Genesys M2M IoT ecosystem.

### JOIN THE M2M REVOLUTION

All you need to start your own M2M system is an application and two or more Meshing Nodes. In their simplest form, Meshing Nodes beam raw RS-485/422 commands between one another, allowing you to control and monitor an RS-485 device remotely. Meshing Nodes can also be used as repeaters to expand your 6LoWPAN network.

### TOUGH AND DEPENDABLE

The 6LoWPAN Meshing Node Pro is suitable for outdoor use, and is housed in an IP65 rated security enclosure to cope with the harsh Australian environment. Backed up by a high-capacity SLA battery to give you the full confidence that your application will be unencumbered by unscheduled outages.

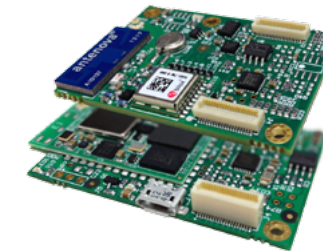


GENESYS 6LoWPAN M2M IoT NETWORK

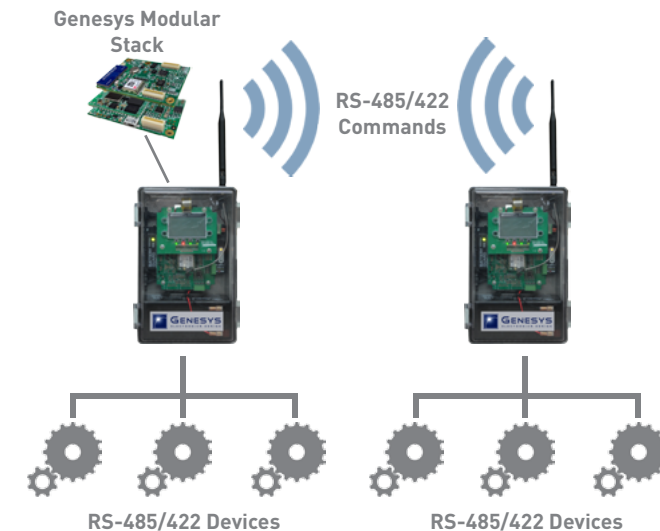
### USER INTERFACE

Coupled with an optional user interface board (GBU-XN-200) with LCD screen and context-sensitive buttons, you can enjoy on-device monitoring of your M2M application.

### GENESYS MODULAR STACK

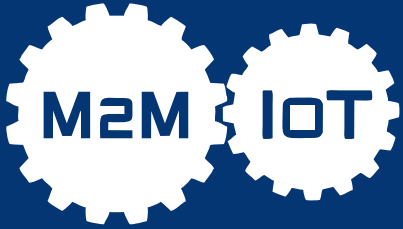


The 6LoWPAN Meshing Node Pro comes equipped with Genesys Modular Stack technology, allowing it to seamlessly integrate with all supported modules, including GPS, climate sensing, 3G/4G connectivity and Wi-Fi. Modules add functionality just by stacking on top of each other.



STAND-ALONE OPERATION

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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: 172mm (W) by 273mm (H) by 110mm (D)
- Weight: 3445g
- IP65 rated enclosure

### ENVIRONMENTAL

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

### POWER SOURCES

- Supply Voltage: 15V DC
- Australian Mains 240VAC to 15V Power Pack included
- Integrated UPS 7.2Ah SLA Battery Backup
- Power Consumption (Operating) – 500 mW
- Power Consumption (Standby) – 50 mW

### OTHER INTERFACES

- Expandability with Genesys Modular Stack

