

GENESYS



MESHING NODE

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

Product Code: GEN-AM-201

GENESYS
ELECTRONICS DESIGN

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6LoWPAN MESHING NODE

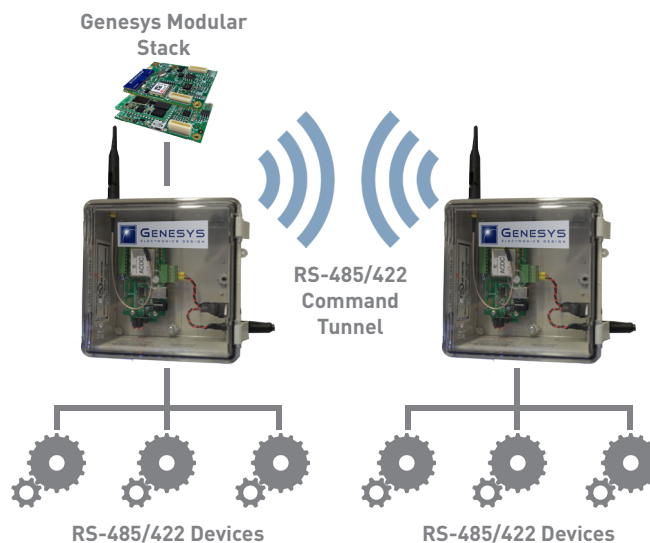
The Genesys 6LoWPAN Meshing Node provides a powerful, stand-alone interface to the Genesys M2M IoT ecosystem.

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 RS-485 devices remotely.

EXPAND YOUR M2M NETWORK

Strategic placement of Meshing Nodes configured as M2M repeaters is a simple, low-cost method of expanding the range of your existing Genesys M2M system.



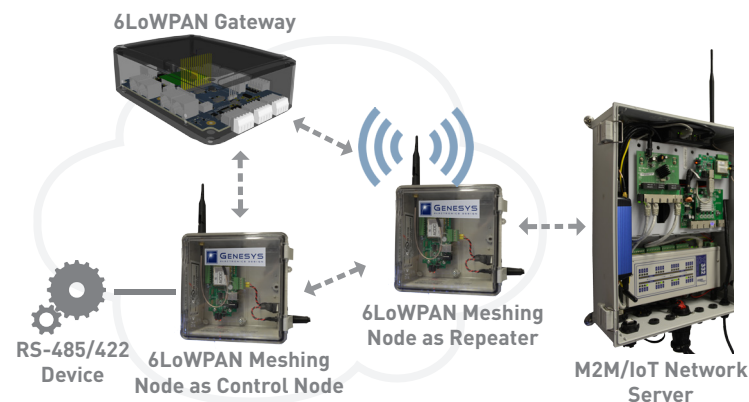
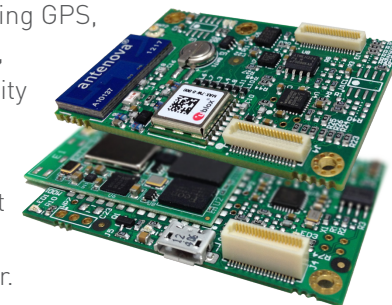
STAND-ALONE OPERATION

ROOM FOR USER DEVICES

The Meshing Node features empty space within its IP65 enclosure so as to allow for containment of custom or user devices that can be locally housed and interfaced to your application.

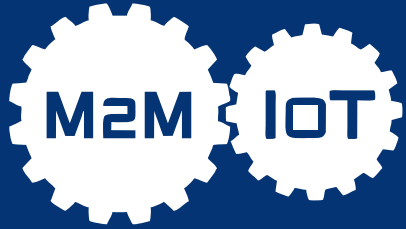
GENESYS MODULAR STACK

The 6LoWPAN Meshing Node 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.



GENESYS 6LoWPAN M2M IoT NETWORK

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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: 140mm (W) by 140mm (H) by 90mm (D)
- Weight: 400g
- 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: 5V DC to 9V DC
- Australian Mains 240VAC to 5V Power Pack included
- Power Consumption (Operating) – 300 mW
- Power Consumption (Standby) – 50 mW

OTHER INTERFACES

- Expandability with Genesys Modular Stack

