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.

USER INTERFACE
Coupled with an optional user interface board (G8U-XN-200) with LCD screen and context-sensitive buttons, you can enjoy on-device monitoring of your M2M application.

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.
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