

Accuenergy AcuMesh L-900 Mesh Transceiver



# PRODUCT DESCRIPTION

Connect any device to form a point to multi-point mesh network. AcuMesh transceiver eliminates the usual wires in a RS485 installation by using a flexible and simple wireless communication solution. AcuMesh devices maintain all advantages of a standard RS485 network but without the messy wires. Each RS485 device connects directly to an AcuMesh transceiver which enables point to point device communication.

# PRODUCT DETAILS



Long distance communications (305m Indoor 6.5km Outdoor)



Highly secure 128bit Advanced Encryption Standard (AES)



3.0 etc) Automatic selfhealing Mesh

RS485

Compatible:

(Wireless Modbus

RTU. Profibus. DNP

Network



Point to point communication



Fach transceiver acts as an extension point for the network

# **APPLICATIONS**



**Facilities** Management



Power & Energy Management



Solar & Battery Management



Fuel & Liquid Management

# **BENEFITS**

- Communicate wirelessly between power and energy meters, and any devices with RS485 running any protocol within a building or campus
- "Mesh" network structure allows each transceiver to act as extension. points for the network, allowing for a longer range of communication
- The automatic self-healing, self-optimizing network allows transceivers to find the optimal pathway for communication
- Available in Din-Rail. Wall mount or Surface mount form factor.

Purchase on Online at https://netonomy.com.au/product/acumesh

**Contact** us at sales@netonomy.com.au for more information

# **Netonomy**



# Accuenergy AcuMesh L-900 Mesh Transceiver – Technical Details

# AcuMesh L- 900

Connection

Serial Baud Rate Range

RF PROPERTIES:
Operating Frequency Band

Number of Channels

Spread Spectrum

Transmit Power Output

Receiver Sensitivity

Indoor/Urban Range

Outdoor RF line-of-sight Range

RF Data Rate

Antenna

Antenna Impedance

RS485 screw terminal, USB mini-B (power supply and/or configuration)

9600 - 230400

902MHz to 928MHz (900Mhz ISM Band)

64

Frequency hopping

24 dBm (250 mW)

-101 dBm

Up to 305 m

Up 6.5 km with 2.1 dB dipole antennas

Up to 200 kb/s

Antenna-2db-whip (Included in Kit)

Optional 2db-3m-s or 7db-3m-s Antennas

50 ohms unbalanced

### **NETWORKING AND SECURITY**

Supported Network Topologies

Addressing Options

Encryption

Power Requirements

Power Supply

Power Supply

Power Supply

Mesh, point-to-point, point-to-multipoint, peer-to-peer

Personal Area Network Identifier (PAN ID) and 64-bit MAC add addresses

128 bit Encryption Standard (AES)

Power supply included

100-240Vac 47-63Hz Wall Plug

0.54W

1.26W

#### PHYSICAL PROPERTIES

Size

Weight

Mounting

Modrithing

Includes Certification 11.4 x 7.0 x 2.9 cm

150g

Surface mount

Transceiver, Antenna, Power Supply

United States (FCC P

## ACUMESH TRANSACEIVER EXAMPLE

