PR LON



Datasheet

Tree-Com Wireless Adapter (PL-TREE-COM)

Description

The PL-TREE-COM is a Wireless RS485 converter that is made specifically to work with the Modbus protocol. Its main purpose is to provide a means to wirelessly extend the standard RS485 wired daisy-chains used by existing Prolon HVAC control products for new buildings and for retrofits. The PL-TREE-COM operates using the MiraMesh wireless communication protocol, whose patented adaptive frequency hopping algorithms, called Cognitive Coexistence, can avoid wireless disturbances like no other; a must in the exceedingly crowded 2.4GHz band.

Features

- Network devices that are difficult to access
- Integrates both wired and wireless to a single system
- Range reaches up to 2,500 ft / 750 m (line of sight)
- Backwards compatible with most Prolon Controllers
- A single "root" node can connect to one or more "leaf" nodes in a system.
- Standard "daisy-chain" communication bus can still be used as appropriate allowing use of wireless adapters to be minimized.
- Up to 127 adapters can be used on a single network.
- "Root" and "leaf" nodes may be used to replace wire at any point in the network.
- Over the air updates

Technical Specifications

- **Supply**: 24 VAC ±10%, 50/60 Hz, Class 2
- Consumption: 1.2VA
- Indication lights (LED): Communication / Root status / State of microprocessor
- **Connection**: Removable screw-type terminal blocks (max 16 AWG)
- Serial Protocol: Modbus RTU (RS485), 57600 bps
- Wireless: Mira (2.4GHz) with Cognitive Coexistence, NFC
- Module: BT832X, Long Range with Integrated Shield to resist EMI
- **Range**: Maximum distance of 2,500 ft (750 m) between wireless devices (line of sight)
- Antenna: Internal (PCB Trace)
- **Dimensions**: 3.55" x 3.55" x 0.87" (90 mm x 90 mm x 22 mm)
- Weight: 0.196 lbs (0.089 kg)
- Environment: -40 to 185 °F (-40 to 85°C) Non-Condensing
- Certification: Contains FCC: X8WBT832XH / IC: 4100A-BT832XH, RoHS

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