Tree-Com Wireless Adapter — PL-TREE-COM



Product 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 Mira 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 Branch ID’s 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

GLOBAL HEADQUARTERS
17510 Charles St, #100, Mirabel, QC, Canada J7J 1X9
+1-877-977-6566 · **proloncontrols.com**

UNITED KINGDOM OFFICE
+44 (0)115 678 1592
proloncontrols.co.uk