

TANTALUS TR-1901

# LAN Repeater Range Extender

Omni-directional 900 MHz radio for  
flexible TUNet® deployment



The TR-1901 improves radio broadcast range and penetration to ensure that distant sites or those located in challenging urban and rural environments receive reliable communications. It facilitates two-way, near real-time communications between the utility and TUNet-enabled endpoints as well as with Itron ERT® modules.

The TR-1901 can be mounted at any convenient location where VAC power ranging from 100 to 480 V is available, such as on the side of a building or at the top of a pole.

Each TR-1901 comes with a standard omni-directional antenna attached below the unit.

The unit enhances coverage and can form an overlay network for communication with non-TUNet devices. With its sensitive receiver capabilities and easy to mount design, the TUNet LAN Repeater is a valuable component in an AMI system.



## LAN REPEATER RANGE EXTENDER

The TR-1901 LAN Repeater Range Extender provides two-way LAN communications into hard-to-reach locations and over challenging terrain. It provides economical omni-directional radio coverage which enables coverage for larger clusters of LAN endpoint devices at greater distances. Incoming messages from 900 MHz endpoint devices are relayed without additional hardware. This enables a utility to add range and functionality without re-engineering the network. The TR-1901 also sends commands to individual or groups of LAN devices including TUNet-enabled smart meters and load control devices.

**This translates to maximum deployment flexibility at minimized costs.**

## TANTALUS ADVANTAGES

- Provides medium range communications coverage in both challenging rural and urban environments
- Enables a utility to surgically deploy endpoints anywhere without substation constraints
- Multiple installation options
- Small size, rugged weather-proof construction
- Secure, lockable enclosure
- Features Tantalus TRUPUSH™ technology for instant, field initiated event notifications such as outage alerts or load shed success; no device polling required
- Communicates directly with Itron 60W, 100W, 100G, and R300 series ERT modules as well as Badger modules

### LAN Radio

- Frequency range: 902–928 MHz; license exempt
- Transmitter power: 0.9 watts (+29.5 dBm)
- Antenna: 5 dBi external omni-directional

### Environmental

- Operating temperature range: -22° to +149° F / -30° to +65° C
- Operating humidity range: 5% to 95% non-condensing

### Power Input

- Supply: 100 to 240 V at 50/60 Hz
- Quiescent consumption: 4 watts
- Optional 277/480 V transformer

### Approvals / Standards

- FCC for CFR Title 47 Part 15b
- ANSI/UL 60950-1-2002
- CSA CAN / CSA C22.2 No. 60950-1-03
- Rain Proof Type 3R enclosure
- CSA/UL certified

### Physical

- Dimensions: 11" W x 13.25 H x 5" D  
28 W x 33 H x 12.5 D cm (excludes external antenna)
- Weight: 6.8 lbs / 3.1 kg
- Includes mounting brackets

[www.tantalus.com](http://www.tantalus.com) | 919.900.8970

© 2014 Tantalus Systems Corp. TUNet is a registered trademark of Tantalus Systems Corp. Tantalus reserves the right to change product or system specifications without notice.