

LPN SOLO REPEATER

We've got you covered.



RG3 Licensed Private Network (LPN) data collectors offer a strategic two-way communication option for smart water and smart gas deployments. The Tesla Net LPN operates in the 450-470 MHz frequency band spectrum creating a highly reliable private network with extensive coverage and far-reaching range.

The two-way system incorporates rich security features and is end-to-end upgradable remotely with over-the-air updates. The proprietary LPN RF protocol provides time-synced operations to alleviate network RF collision. Data is time-stamped and mapped to show how it travelled through the network. The result is extremely reliable network coverage.



LPN Solo Repeater

Big Impact – Small Package LPN Solo Repeaters communicate with Tesla AMI endpoints and LPN Fixed Network Collectors over a Licensed Private Network. Solo Repeaters are typically positioned in areas that have poor network coverage due to geography or other obstructions. They are installed high enough to overcome the interference caused by the obstruction and relay the endpoint data to an LPN Fixed Network Collector. Solo Repeaters are ideal for communicating with up to 1,000 endpoints within a 1/2-mile radius (approximately 1 sq mile).

Easy Installation Installing a Solo Repeater is as easy as mounting it with the two provided mounting holes and plugging it in. Solo Repeaters come with a cord and power converter to be powered by a standard 110v outlet with ground. If A/C power isn't available, a solar power package can be added to make the Solo Repeater self-contained. They can be screwed to a wall, clamped to a pole, or placed on the back of a street sign or light. Mount it, plug it in, and your done.

Extreme Duty Outside of power options and firmware, Solo Repeaters are identical to Tesla Solo AMI endpoints. They have the same compact 6.5" x 3.2" form factor, fully potted electronics, and are also constructed with a 450-470 MHz LPN transceiver. Since Solo Repeaters were constructed to withstand 20 years completely submerged in a challenging meter pit environment, it is easy to see how the rugged design will provide a very long service life when mounted to an elevated tank, pole, building, or inside an office. They are built to operate in extreme temperatures ranging from -40°F to +185°F (-40°C to +85°C) and can easily stand up to a hurricane.



Features and Benefits

- Easy for utility personnel to install
- Quickly extend network coverage to a large subdivision (roughly 96 city blocks)
- Easy way to send meter reads to your office (AMI)
- Licensed Private Network with low RF interference
- Two-way communications
- Time-Stamped readings and alarms
- Over-the-air remote firmware updates
- End-to-End security
- Hourly usage data
- Easy to add to existing network
- IP-68 weatherproof enclosure
- Built in duplexer for single antenna
- Near real time alarms
- Mount it, plug it in & your done

Specifications

Dimensions	6.5" x 3.2" x 3.1"
Weight	3 lbs
Mounting Options	Pole or wall mount
Operating Temperature	-40°F to +185°F (-40°C to +85°C)
Enclosure Rating	IP-68
Humidity	0% to 95% non-condensing not including AC power converter or solar package
Operating Power	110VAC, Solar
Surge Protection	3330 joules
Frequency Band	450-470 MHz
Approvals	Part 90, Part 15, Part 22, Part 24, & Part 27 of the FCC rules
Backhaul Options	--
# of Endpoints Served	3,000



LPN DUO COLLECTOR PRODUCT DATA SHEET

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