

LPN DUO COLLECTOR

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 Duo Collector

Big Impact – Small Package LPN Duo Collectors (DCs) send and receive information to Tesla AMI endpoints over a Licensed Private Network and then send collected data over one of multiple public cellular networks (Verizon, AT&T, T-Mobile, etc.), depending on which has the strongest signal at the time. DCs are ideal for communicating with up to 1,000 endpoints within a 1/2-mile radius (approximately 1 sq mile) or farther depending on geography and installation height. DCs can store up to 38,250 reads that can be retrieved manually with a 450 TRX mobile data collector as a backup.

Easy Installation Installing a Duo Collector is as easy as mounting it and plugging it in. DCs can be installed anywhere using the two provided mounting holes. DCs 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 Duo Collector self-contained. They can be screwed to a wall, clamped to a pole, or placed on the back of a street sign or light. A simple website registration is required after installation.

Extreme Duty Outside of power options and firmware, DCs are identical to Tesla Duo 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 and a cellular modem. Since DCs 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.



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Features and Benefits

- Easy for utility personnel to install
- Quickly provide network coverage to a large subdivision (roughly 96 city blocks)
- Super easy way to read your meters from the 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
- Data Storage for redundant transmissions
- IP-68 weatherproof enclosure
- Built in duplexer for single antenna
- Near real time alarms
- Easy to add to existing network

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	Cellular
# of Endpoints Served	1,000
Capacity of Read Storage	38,200 reads



LPN DUO COLLECTOR PRODUCT DATA SHEET

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