

RF Network Diversity Repeater



RF Network Diversity Repeater from Tehama Wireless receives radio messages from MDTs and other repeaters and then retransmits the message with its high power radio toward the data collecting DCAP. Repeaters implement the redundant and self-healing 2-way mesh radio network between MDTs and the DCAP.

Multiple repeaters are used at a site to form an RF network that provides complete RF coverage over the entire property, or to connect separate buildings that may be up to 1/2 mile or more apart.

In March 2015 the newly re-designed Diversity Repeater, TW-191-R, was released with significant radio improvements due to the 2nd diversity antenna and an improved ability to receive weak RF signals. This implements a much more robust RF network and effectively extends the range of MDTs and Repeaters by up to 50% compared to our prior Repeater. The Specifications below reflect the TW-191-R diversity Repeater.

Specifications

Radio	902 – 928 MHz; FCC Certified; Open field range of up to 1 mile*
LED-Power	Bi-color, indicates Power state: - Green: AC Power good - Red: No AC power but running on capacitor - Off: Off, no power.
LED-Status	Bi-color, indicates Network connection status and Link Quality - Standard slow/fast flash sequence upon power-up - Green: Link Quality > 65 - Orange: LQ between 31 and 64 - Red: LQ between 0 and 30 - Off or flashing red: no connection to network
Dimensions	5.3" x 5.3" x 1.6"
Operating Environment	-10 to 145 degree F, up to 90% RH, non-condensing.
Power	5VDC, 600mA or greater 120VAC wall transformer. Upon loss of power, an alert message is sent to the DCAP.

Continual product enhancements may cause specifications to change without notice.

*Actual range may vary depending on installation location and topography.

Models

Diversity Repeater	TW-191-R	Extended Range Repeater, includes 5V DC power supply.
Regular Repeater	TW-101R-5	Old style Repeater, Includes internal backup battery and 5V DC power supply. While supplies last, this product will be phased out.
Repeating MDT	TW-141LW-PL	Low RF powered Leaf Repeater with a single pulse input counter. Designed to be powered from the 12V output of an electric CT meter.

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