RF Network Diversity Repeater



Updated! Our latest RF Network Diversity Repeater receives radio messages from MDTs and other repeaters and then retransmits the message with its +28dBm high power radio toward the data collecting DCAP. All Tehama Repeaters implement a redundant and self-healing 2-way mesh radio network between MDTs and the DCAP. Like our previous two Repeaters, this is fully compatible with every Tehama system deployed to date.

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 one mile or more apart.

This new model, introduced in March 2017, adds 10dB more transmit power while retaining the benefits of the diversity radio configuration from our second-generation product. The extra output power effectively doubles the range over the prior version to implement a very robust RF network.

Specifications

Radio	902 – 928 MHz; FCC Certified; +28.5dBm transmit power, Open field range approaching five miles*
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, 800mA 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

For use in **Standard Range** systems **		
Standard Diversity Repeater	TW-191-X	Updated Extended Range Repeater for use in Standard Range system, includes 5V DC power supply. Identified with Serial # E3xxx, +28.5dBm transmit power.

** Standard and Max Range systems are NOT compatible: only Standard Range MDTs must be used with a Standard Range Repeater (and Standard Range DCAP) and vice versa.
Refer to AN-119 in the documents section of our website for more information.

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