



DCAP



Solar DCAP Kit with Long-Term Evolution (LTE)

MAX Range Systems

Product Overview

Our MAX Solar DCAP kit w/LTE includes everything you need to implement a solar powered DCAP to manage the Tehama RF network. The kit comes with our 4th generation DCAP, solar panel, battery, charge controller, UV resistant outdoor enclosure, and mounting hardware for a 2-inch pole. It can also be mounted to a wall or other Unistrut structures. An optional 12-inch post mounting kit is also available.

The 20W solar panel is large enough to fully charge the battery with just one day of full sunlight. With a full charge, the lithium iron phosphate battery can run the DCAP for over a week with no further sun exposure.‡

The Solar DCAP is designed for locations where electric power is not readily available. Mobile/manufactured home communities or commercial site are prime applications. The on-board cellular LTE module means that property supplied Internet is not required for operation.

Cellular service is managed by Tehama and is purchased annually from us. Verizon is the default carrier, but AT&T service can be requested at the time of ordering.

Specifications

Communication Options	<ul style="list-style-type: none">• Embedded LTE Cellular modem
Communication Protocols	<ul style="list-style-type: none">• Email with .CSV or .OUT file• FTP and Secure FTP• API for pulling data reads
Radio	902 – 928 MHz; FCC Certified; +28dBm transmit power, Open field range approaching 12 miles for our MAX system
Dimensions	Solar panel: 18.5" X 14.2" X 0.9" Enclosure: 7.7" x 7.7" x 5.9"
Weight	Under 10 pounds
Operating Environment	-5 to 140 degree F (-20 to 60 C) Battery Charging disabled above 113F (45C) and below 32F (0C)
Power	20W Solar panel plus 6Ah lithium iron phosphate battery. Solar power priority goes first to the DCAP, then to charge battery. Battery good for over 2000 charge cycles and should last 10 years or longer.
Warranty	Four years, does not cover equipment that is not properly mounted or damaged by wind or rain.

*Line of site, actual range will vary depending on installation location and topography.
Continual product enhancements may cause specifications to change without notice.

Models

MAX Range System only	Part number	Description
Low Capacity Solar DCAP kit	TW-205-S-150	Solar DCAP kit for up to 150 MDTs, with 20W solar panel, 6Ah battery, charge controller, UV resistant outdoor enclosure, and mounting hardware for a 2-inch pole.
High Capacity Solar DCAP kit	TW-205-S-1000	Solar DCAP kit with Repeater, 20W solar panel, 12Ah battery, charge controller, UV resistant outdoor enclosure, and mounting hardware optimized for a 2-inch pole.
Additional Parts (sold separately)	Part number	Description
12" Post Mounting Kit	TWA39	Large pole Mounting kit for solar products. Includes all hardware needed to band-clamp to a pole or post up to 12" diameter.

‡ The Solar DCAP is always collecting data from the Network while the battery has power. However, the LTE modem used for forwarding received data to the cloud is powered down most of the time when the sun is down or during heavily overcast days. As such it is not recommended to use a Solar DCAP in situations where time-critical alerts are required. Data is uploaded to the cloud every hour under normal night-time operation, but the upload interval can increase up to four hours to extend battery life if the panel does not receive any solar energy for days at a time.

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