



## CASE STUDY

# HIGH GAIN OMNI-2.4GHZ ANTENNA

MP ANTENNAS INCREASE COVERAGE FOR INTERNET SERVICE PROVIDER

MODEL NO:

**08-ANT-0888**

MP Antenna, LTD.  
7887 Bliss Parkway  
North Ridgeville, Ohio 44039

877 678 3243 *phone*  
877 678 3245 *fax*  
sales@mpantenna.com  
www.mpantenna.com



Skycasters, based in Ohio, brings affordable broadband satellite Internet access, mobile satellite Internet and corporate data services to any organization including rural and underserved locations. The systems are well suited for multiuser business customers in remote areas where conventional broadband data service is not available or cost effective. The company's rapid deployable mobile satellite trailers are designed to communicate with satellites and redistribute signals on a Wi-Fi frequency so that laptops and other wireless devices can communicate with the outside world. Trailers are often used in disaster relief and emergency response situations as well as in the mining, oil, and gas industries. The application requires state-of-the-art antennas for work in these harsh and often challenging environments, and after testing several products from various vendors, Skycasters selected the 2.4 GHz 8 dBi omnidirectional antenna from MP Antenna. According to Skycasters' RF engineer Mario Tomaselli, "Customers use our mobile satellite trailer for point-to-multipoint communications to enhance emergency response capabilities everywhere. We were looking for a way to improve wireless signals over distances as far as a thousand feet from the trailer. We chose MP Antenna's product because during our field evaluation where we ran comparison tests, the MP Antenna 8 dBi omni performed the best." Since implementing the new antennas, Skycasters has achieved a 40 percent improvement in area coverage and faster throughput speeds. During a test that measured received signal strength indication (RSSI), the units showed an improvement as high as 10 dB above the existing high-gain antenna. Additionally, the 2.4 GHz 8 dBi omni covered a 335-yard radius that contained multiple obstructions, without a loss of signal or communication clarity. Today, two of the antennas are installed on each mobile satellite trailer.