



Case Study:

CITY OF SAN BERNARDINO, CALIFORNIA BOOSTS PUBLIC SAFETY & SECURITY WITH RADWIN

RADWIN's wireless surveillance network dramatically improves police and emergency response times

Overview

The city of San Bernardino is a community rich in history and cultural diversity. The city's overriding goal is to ensure the safety of its citizens and tourists; to execute on its mission, the city deployed high-definition video cameras in critical junctures such as traffic intersections, high-crime areas and public parks.

The city sought the right technology to transmit video from the cameras back to its central control center. Video from the cameras would enable security personnel to detect suspicious and criminal activity, monitor personnel and vehicles, and quickly dispatch police officers to the scene of a crime.

The Challenge

San Bernardino turned to Wi4Net, a leading system integrator specializing in wireless, to assist them in finding the optimal technology for video transmission.

The project posed a number of challenges:

- » Deliver high-quality video in real-time, 24/7
- » Installation in a high-interference zone with 4.9 GHz already used up
- » Meet the city's rigid time and cost constraints
- » Operation in urban areas where there are significant line-of-sight obstacles due to the topography, buildings and trees



The Solution

Wi4Net recommended the RADWIN 5000 point-to-multipoint and RADWIN 2000 point-to-point solutions to serve as the critical building blocks of the city's wireless surveillance network. RADWIN's systems were deployed in an 81 square miles (130 km) area.

"The installation was in a challenging RF environment coupled with 4.9 GHz congestion. That's where the unique Multiband feature of RADWIN's radios came in handy, enabling us to determine the optimal transmission channel on the spot.

We had to work within a tight budget and RADWIN's systems allowed us to install more cameras per square mile than any other solution. Today RADWIN's systems are transmitting video with the highest image quality from the exact locations required, with some remote locations 5 miles (8 Km) away."

**Jasper Bruinzeel, Vice President, Wi4Net
Division, US**

The Results

- » Significantly improved public safety & security in the city
- » Coverage of areas where the city doesn't have continuous police presence
- » Provide virtual eyes on the street and enable fast dispatch of emergency response forces when and where needed
- » Ability to detect and react to unfolding events on the spot

"One of our highest priorities is to enhance the safety of residents and visitors. After an extensive search for the best video surveillance transmission technology we chose RADWIN. The wireless systems came out on top in terms of performance, ease of installation and speed of deployment."

Michael Eckley, San Bernardino Police Department, California, US

Why RADWIN

- » 24x7 video transmission from HD cameras with highest image quality
- » Unique Multiband feature enables overcoming interference
- » Highest capacity of up to 250 Mbps for video streams, enabling vehicle plate recognition and providing clear identification of individuals
- » Operation in non-line-of-sight
- » Ability to install cameras in any location
- » Dedicated bandwidth per link; no single point of failure



- » RADWIN wireless solutions deployed throughout city of San Bernardino

About RADWIN

RADWIN is a leading provider of sub-6 GHz wireless Point-to-Point and Point-to-Multipoint, Wireless Broadband-in-Motion and Small Cell NLOS Backhaul solutions. Deployed in over 150 countries, RADWIN's solutions serve the needs of service providers, mobile carriers, governments, enterprises, public and private security companies and transport organizations.
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About Wi4Net

Wi4Net, a division of CelPlan Technologies Inc., offers an innovative family of wireless video surveillance and wireless broadband solutions that feature unique flexibility in design and deployment.
www.wi4net.com



RADWIN