



AccelTex Solutions Fiserv Forum - Home of the Milwaukee Bucks

CASE SUMMARY



AccelTex Product Solutions

- Custom 30x14x10 Dual 45 Round Front Enclosure (2566D)
- Custom 12x24 Enclosure for 2566P and 3802
- Custom 17x10x9 45 Wall Triangle Enclosure (2566D)
- Custom 26x22x11 Gilaroo Enclosure Base and Cover
- ATS-ODDHRP-245-4-8RPSP 2.4/5 GHz 4 dBi 8-Element Dual Directional Handrail Patch Antenna
- ATS-ODDHRP-245-6-8RPSP 2.4/5 GHz 6 dBi 8-Element Dual Directional Handrail Patch Antenna
- Mini Patch Antennas
- Double stack enclosure

Case Overview

A major, multi-purpose arena needed several specialized enclosures to protect their Wi-Fi equipment. They also needed reliable & durable handrail antennas that were bi-directional for wider coverage in the seating areas.

Overview

A multi-purpose arena in downtown Milwaukee, Wisconsin needed to enhance their Wi-Fi network - both indoor and outdoor - to improve connectivity. The Fiserv Forum is a state-of-the-art 714,000 square foot arena that seats up to 18K spectators and is home to the Milwaukee Bucks NBA team. The venue holds over 200 events a year including basketball and hockey games, boxing events and major concerts. The seating area can be reconfigured for different events.

Challenges

- Custom enclosures and mounts needed to be developed for the Wi-Fi equipment to be placed/aimed in certain positions for maximum RF coverage
- Handrail antennas needed to be durable enough to withstand frequent relocations that occur during the seating reconfigurations for the different events
- Aesthetics were a priority. Special enclosure covers were needed to help blend the equipment into their environment.

Solutions

AccelTex Solutions was contacted by their partner - Heartland Business Systems (HBS) - to help address the unique network product needs that the venue had. The venue wanted custom enclosures developed where Wi-Fi network antennas and access points could be aimed at specific degree tilts to provide continuous RF coverage throughout the location.

AccelTex Solutions also developed one of the smallest handrail antennas on the market that provides RF coverage on both sides of the venue aisles. These antennas also have durable covers that were colored to make them blend into the environment. In addition, AccelTex helped design a system where the handrail antennas can be easily detached and re-attached (via DART connector) to keep the network functioning when the lower seating area is reconfigured for different types of events.

The AccelTex team worked closely with the venue to develop a reliable Wi-Fi network that met high density needs. A visitor to the Fiserv Forum can connect to the network in the outdoor "Deer District" areas. Once inside the venue, the high performance network allows for visitors to complete tasks such as streaming video. The network continues to provide solid connectivity during high demand events.

AccelTex Solutions was able to:

- Develop custom enclosures
- Design a small but high-performance handrail antenna with durable covers
- Meet the venue's demand to aesthetics with enclosure covers that blend into the environment

