

Case Study – Football Stadium



The Customer

Our customer is an audio event and systems engineer at a professional American football stadium.

The Challenge

The customer was looking for coax replacement since they had to bridge a distance of more than 150 ft. between the main rack integrated in the control room and the 2nd zone RF station outside in the football stadium. The RF over Fiber solution had to be able to interoperate with other RF equipment such as isolators, mini circuit amplifiers, and passive splitter/combiners.

The Solution

The customer chose RFOptic's multi-link 2.5GHz RFoF solution to be integrated with the rack which was set up in the truck pit / dock area using 7 strands of single-mode fiber to get the full coverage for broadcasting. Since the building attenuates really well, the production people were able to walk outside with 100% reception and performance. The RF link gain of RFOptic's programmable RFoF links can be adjusted in ½ dB increments from 0 to +40 dB

The Result

The customer was impressed with the results, especially the ability to adjust the link gain, which allows for the flexibility and the small form factor, and the low power consumption. More specifically, there are no IP addresses to manage on a network and no limit to the Radio Active Design belt packs that can be used outside.