



Cambium Networks™

CASE STUDY

cnWave goes to the beach: free Wi-Fi for visitors at new beach promenade in Germany

Overview

In summer 2022, a new beach promenade was inaugurated in Norddeich, a town in Northern Germany. "Das DECK" offers a lot of free space to enjoy directly on the North Sea coast – whether it's a leisurely stroll, yoga or beach volleyball. The modern promenade is complemented by various hospitality locations and playgrounds – dunes, beach and sea always in sight.

To make a stay on the promenade even more attractive for visitors, a comprehensive and free Wi-Fi networks was to be installed. The companies OMG.de GmbH and Emsnet GmbH were tasked with this project. As a long-term Cambium Networks partner, OMG.de GmbH decided to use Cambium products for the Wi-Fi implementation at the beach promenade in Norddeich.





Along the promenade, six Wi-Fi Outdoor Access Points and three cnWave 60 GHz Fixed Wireless components were installed. This solutions are robust and ensure reliable wireless gigabit connectivity even in bad weather conditions.



The challenge

In order to provide the entire beach promenade with free Wi-Fi connections, a large area had to be covered. As "Das DECK" attracts a lot of visitors around the clock, the Wi-Fi network was also expected to offer high bandwidths and to support a very large number of simultaneous users without causing connection interruptions or long loading times. Another major challenge for the Wi-Fi solution were the weather conditions – located directly at the North Sea, devices that can withstand strong wind and rain were to be used at the beach promenade.

The solution

A total of nine Cambium Networks products was installed at four locations along the beach promenade. To fulfill the high requirements regarding robust products in a surrounding with complex and challenging weather conditions, specifically designed products for outdoor areas were used. A total of six Wi-Fi 6 Outdoor Access Points (XV2-2T0, XV2-23T and XV2-2T1) were installed as well as three 60 GHz cnWave Fixed Wireless components (V5000 und V2000). A cnWave V5000 device and four Access Points were installed at the roof of the centrally located "House of the Guest". Four Access Points were installed at the bridge in front of the "House of the Guest". Along the promenade, a cnWave V2000 and an Access Point each were installed at two further locations.

The results

The Cambium Networks devices provide visitors to the beach promenade "Das DECK" with a reliable Wi-Fi network that is as modern as it is powerful. Depending on the model, the Access Points can supply between 256 and 512 user devices with Wi-Fi. Thanks to the roaming functionality of the Access Points, users are always connected to an Access Point while on the move and thus always have a stable internet connection. With the Fixed Wireless components and their 280° sector antennas, connections can also be provided over large areas.

About Cambium

Cambium Networks enables service providers, enterprises, industrial organizations, and governments to deliver exceptional digital experiences, and device connectivity, with compelling economics. Our ONE Network platform simplifies management of Cambium Networks' wired and wireless broadband and network edge technologies. Our customers can focus more resources on managing their business rather than the network. We deliver connectivity that just works.