



Large Home Improvement Retailer Uses TerraWave Solutions® Products to Improve Wireless Systems

Executive Summary

Company Focus

- Large home improvement retailer with over 2000 stores around the world

Business Challenge

- Developing an integrated solution that included a MIMO antenna attached to an enclosure
- Solutions to be deployed in challenging warehouse type of environments that required durable wireless equipment

Solutions

- 12"x10"x6" NEMA 4X Polycarbonate Enclosure with Clear door, Latch locks, Universal backplate, cord grip
- 2.4/5 GHz 6 dBi Outdoor MIMO Omni Antenna
- Wall Mount Kit
- Mounting feet for polycarbonate enclosures

Benefits

- Successfully deployed an integrated solution that included the antenna installed on the enclosure
- Reduced implementation time and cost due to the comprehensive, all-in-one solution
- Implemented the solution on time and on budget



Challenge

This home improvement retail company started over 30 years ago and with an entrepreneurial spirit and a strong commitment to customer service, became a leader in the retail industry. They helped pave the way for customer-centric service by not only supplying the tools needed for home improvement projects, but also providing education on how to complete them - making them one of the first large retail companies to offer this kind of service.

As the company evaluated their wireless systems, they recognized a need to expand the Wi-Fi coverage within their stores. It was determined to install access points throughout the store including in challenging areas such as the garden center which is partially exposed to the elements. They needed wireless equipment that would not only protect the access points, but also be able to withstand exposure to moisture, dust and various temperatures.

Solution

TerraWave Solutions was contacted by the retail store and asked to develop a comprehensive solution that would include the MIMO antenna and the enclosure in one configuration so that all they had to do was install it with the access point and mount into place. The first version of the solution had the antenna mounted to the door. This created issues because since holes had to be drilled in the enclosure doors, there could have been a potential for rust.

For detailed product information and to purchase product, please contact a TerraWave Solutions wireless networking solutions sales engineer at 210-375-8482, 800-851-4965, sales@terrawave.com or visit www.terrawave.com.

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12" x 10" x 6" Polycarbonate Enclosure with Clear Door, Latch Locks (307222)



2.4/5 Ghz 6 dBi MIMO Outdoor Omnidirectional Antenna w/ RPTNC Plugs (363076)



Wall Mount Kit (393720)



Mounting Feet for Polycarbonate Enclosures (316290)



Integrated Solution (with Clear Door) 388747
Integrated Solution (with Solid Door) 338273



The second version that TerraWave Solutions developed included installing the antenna on the bottom of the polycarbonate enclosure and then sealing it so that no water could get in. The retailer approved this design and then made an additional request for surge protection. TerraWave Solutions added Ethernet surge suppression and was able to effortlessly bundle the solution and add mounting capabilities with a wall mount kit and mounting feet for more mounting flexibility and options.

TerraWave Solutions not only provided the hardware for the overall solution, but also worked closely with the retail company to ensure that all of their needs were met. Despite being installed in a challenging environment, the retail company knew that the solution would endure the conditions. The MIMO Outdoor Omni antennas are designed with a durable exterior that makes it able to withstand exposure to moisture and dust. The enclosures are constructed of polycarbonate plastic and are able to protect access points from corrosion, dust, rain and extreme temperatures as well as unauthorized access.

The retail company was able to enjoy their new, upgraded wireless system with a broader coverage to provide enhanced connectivity to their customers and employees.

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