

TerraWave Case Story

Wi-Fi Solutions & Services

- TerraWave 5 GHz Integrated Antenna and Cisco 1242 AP Enclosure Solution (TESSCO Part No: 436947)
- TerraWave 2.4 GHz 12.5 dBi V-POL Sector Panel Antennas (TESSCO Part No: 451903)
- TerraWave 5.7-5.85 GHz 6 dBi Omni Antennas (TESSCO Part No: 465916)
- TerraWave 2.4 GHz 2 dBi Rubber Duck Antennas (TESSCO Part No: 479980)
- TerraWave 802.3af Power over Ethernet Adapter (TESSCO Part No: 454977)
- TerraWave Lightning Arrestors (TESSCO Part No: 459961)
- AirMagnet Survey PRO (TESSCO Part Number: 416939)
- TerraWave Mounting Solutions
- TerraWave Custom Built Cables
- Free TerraWave Value-Added Wi-Fi Technical Support and Consultation

TerraWave Customer

Value Added Reseller (VAR)

Vertical Market/Industry

Vehicle storage facility, formally a race track and gaming facility

Business Challenge

Provide reliable 802.11 a/b/g wireless communications throughout a 100-acre property that has unreliable cellular coverage and considerable RF limitations due to topography.

Problem

Install an 802.11 a/b/g solution that provides reliable data transmissions throughout a 100 acre auto storage complex. Collection handheld wireless terminals are utilized at remote locations for inventory purposes and data is sent back to main offices. However, the topography of the racetrack creates interference challenges and prevents the use of omnidirectional antennas as well as direct line-of-sight, point-to-point links. Additionally, power sources are not readily available throughout the property.

Solution >> Professional Site Survey, Wireless Point-to-Point and Point-to-Multipoint Bridging with Wireless Backhaul and Power Over Ethernet

TerraWave's in-house team of Wi-Fi experts worked with the VAR partner to identify site challenges and provide recommendations for the optimum solution from a standpoint of both throughput and cost. Together, TerraWave and the VAR reviewed satellite imagery of the site and utilized AirMagnet Survey PRO software to verify coverage and perform a professional site survey. TerraWave provided the VAR with a suggested selection of antennas in order to undertake a manual site survey. Site engineers used the software and antennas to walk off the coverage cells and verify that the access points and antennas were properly installed to ensure full coverage.

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Featured Products



TESSCO Part Number: 436947
TerraWave Part Number: TI58230AP1242
802.11a Radio
5 GHz 23 dBi Internal backhaul with
5 GHz RPTNC Plug Connectors
List Price: \$1,549.00; Gold: \$1,239.20

[View Detailed Specs](#)



TESSCO Part Number: 462907
TerraWave Part Number: T58150P10006120
5.8 GHz 15 dBi V-POL Sector Panel
Antenna with N-Style Jack Connector
List Price: \$194.21; Gold: \$155.37

[View Detailed Specs](#)

TerraWave Case Story (continued)

The final solution included point-to-point and point-to-multipoint bridge links with wireless backhaul. Seven TerraWave Integrated 5 GHz Antenna and Cisco 1242 AP enclosures were deployed. The integrated enclosure offered a three-in-one outdoor wireless solution. A fully integrated Cisco 1242 dual radio AP and a high-gain antenna contained within ruggedized and weatherized enclosures that were mounted on towers. Each Integrated Unit included an external 2.4 GHz sectorized antenna to provide client coverage while the integrated 5 GHz antenna provided backhaul. Each Integrated Unit comes standard with Power over Ethernet providing an easy power supply solution to the seven APs. Additionally, TerraWave lightning arrestors were installed to protect the units and network from lightning strikes and destructive surges.

Site engineers estimate the deployment of the new solution will result in an annual saving of \$31,850.

Additional Featured Products



TESSCO Part Number: 465916
TerraWave Part Number: T24060010006
**5.7-5.85 GHz 6 dBi Omni Antenna
with N-Style Jack Connector**
List Price: \$125.00; Gold: \$100.00

[View Detailed Specs](#)



TESSCO Part Number: 479980
TerraWave Part Number: TWS2400
**2.4 GHz 2 dBi Rubber Duck Antenna
with RPTNC Plug Connector**
List Price: \$10.50; Gold: \$8.40

[View Detailed Specs](#)



TESSCO Part Number: 459961
TerraWave Part Number: TW-LP-RPTNC-0021
**RPTNC Plug-to-RPTNC Bulkhead Jack
Lightning Arrestor—0-6 GHz**
List Price: \$28.75; Gold: \$23.00

[View Detailed Specs](#)



TESSCO Part Number: 454977
TerraWave Part Number: PW130RB4800F01
**802.3af Power over
Ethernet Adapter**
List Price: \$46.25; Gold: \$37.00

[View Detailed Specs](#)



TESSCO Part Number: 416939
TerraWave Part Number: A4015
AirMagnet Survey PRO

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