Realize the Power of Smart EV Charging with Wireless Broadband Communications

Powered by M.gear US AP400

A major EV supercharger station operator deployed hundreds of its superchargers across a network of stations throughout Taiwan.

As the EV charging station operator is committed to its sustainability, operational efficiency and innovation goals, it realized that to ensure its supercharger network provides convenience and reliability to its EV customers, that it needs broadband connectivity to remotely monitor and manage a network of Smart EV Charging Stations in real-time.

Installing a fiber-optic or other wired broadband network access at each station would require permitting, longer deployment time and higher costs.

The EV charging station operator decided to deploy a cellular broadband network to enable Smart EV Charging and selected M.gear's 4G LTE AP 400 Industrial Router and GearTrack IoT Management System. The AP400 is ideally suited for Smart EV Charging Station connectivity as it enables cost-effective, cellular broadband access within a ruggedized form factor for operation in outdoor environments.

Customer Scenario
Securely remote monitor and manage a network of EV charging point stations with ease

Solution
M.gear 4G LTE AP400 IoT Router and IoT Management with WAN/LAN2 port , LAN1 port and integrated Wi-Fi, and IoT management features for device monitoring, real-time alarms and network reporting

Customer Benefits
Secure, low-cost wireless broadband access with real-time device monitoring and management to ensure EV charging stations are fully operational with minimal electric charging service disruptions to EV customers

Performance-driven and enterprise-ready, the AP400 integrates Wi-Fi connectivity, MQTT with QoS to ensure network resilience and energy efficiency, and built-in VPN support for enhanced network security.

To enable real-time, reliable monitoring and management for its Smart EV Charging Stations, the AP400 also offers one configurable 100 Mbps Ethernet WAN or LAN port, as well as one 100 Mbps dedicated LAN port.

The AP400's GearTrack IoT Management System enables the EV charging station operator to remotely monitor and proactively manage the cellular routers to ensure all connected EV charging stations are fully-functional, allow convenient charging access and support for customers.

Based on its successful initial deployment, the charging station operator is considering expanding its Smart EV Charging Station network enabled with 4G AP400 and in the future, is considering deployment of M.Gear's next generation 5G AP500 Routers with dual SIM capabilities for private 5G and network failover to ensure quality EV customer charging services.

At M.gear US we are ready to work with you to address your wireless connectivity needs and ensure M.gear US products can take your business to the next level. Please contact our team of experts at Mgearus.com today!

M.gear AP400 Specifications for EV Charging Needs

- FDD/TDD 4G LTE 150 x 50 Mbps
- One Configurable WAN/LAN Port
- One dedicated LAN Port
- IOT Management Portal
- VPN Security
- Ruggedized Form Factor

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