

Realize the Power of Smart EV Charging with Wireless Broadband Communications

Powered by M.gear US MII411

A major EV supercharger station operator deployed hundreds of its superchargers across a network of stations across 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 needed broadband connectivity to remotely monitor and manage 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 deployed a cellular broadband network and selected M.gear's 4G LTE MII411 Industrial Router and GearTrack IoT Management System. The MII411 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 MII411 IoT Router and IoT Management with WAN/LAN2 port, LAN1 port, 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 charging service disruptions to EV users

Performance-driven and enterprise-ready, the MII411 integrates Wi-Fi connectivity, MQTT with QoS to ensure network resilience and energy efficiency, and built-in VPN support.

To enable real-time, reliable monitoring and management for its Smart EV Charging Stations, the MII411 offers one configurable 100 Mbps Ethernet WAN or LAN port, and one 100 Mbps dedicated LAN port.

The MII411's GearTrack IoT Management System enables the EV charging station operator to remotely monitor and manage the cellular routers to ensure all connected EV charging stations are fully-functional, and deliver convenient charging services.

Based on its successful deployment, the charging station operator is looking to expand its use of MII411s and in the future, is considering deployment of M.Gear's 5G MII5201 wireless routers with dual SIM support for private 5G and public cellular failover, delivering greater resiliency.

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



M.gear MII411 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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