

CASE STUDY

Proscend Compact Industrial Cellular Router M330-W is used in wireless IPTV (Internet Protocol Television) application for recreational vehicles (RVs) in European cities.

Background

The mobile vehicles are required high-speed bandwidth and better network coverage for streaming media services in wireless IPTV (Internet Protocol Television) application, however this situation is hard to achieve through IP-based wireless networks, specifically for recreational vehicles (RVs), trucks, and fleets. There is a real case that one of our customers is used in European cities, how to integrate Proscend's Compact Industrial Cellular Router with their IPTV digital multimedia box to get a good signal for RVs.

Challenges

The IPTV digital multimedia box through WiFi signal is built inside in the recreational vehicles (RVs), which made of metal to cause shielding and weak signal, because a wireless signal is not easily pass through metal. This condition makes difficult to get high-speed Internet and sufficient bandwidth for RVs. Moreover, the installation space is strictly limit because many devices are integrated together in a space, including a cellular router, an IPTV digital multimedia player, and a TV display screen.

Solutions and Benefits

- **Stable Signal** — Proscend's Compact Industrial Cellular Router M330-W is connected with the customized 5-in-1 outdoor magnetic mount roof-top antenna to receive LTE, WiFi, and GPS for combining multiple functions, like playing video streaming over Cellular/WiFi, and guiding the route via GPS simultaneously as well as enhancing more stable signal and better sensitivity. The Cellular Router M330-W can be also connected your digital multimedia box via a RJ45 Ethernet cable for backup support.
- **Reliable Bandwidth** — The Compact Industrial Cellular Router M330-W supports LTE cellular technology, WiFi wireless connection and Ethernet network to make multiple Internet connections for combined high-quality speed and reliability. With long-distance wireless connectivity and secure VPN tunnels, the Cellular Router M330-W ensures dependable communications and improves the whole RV Internet experience to give you secure, fast and reliable connections.

- **Affordable Device** — The Compact Industrial Cellular Router M330-W with slim size and lightweight design meets tiny space and easy installation. Compared to expensive satellite TV devices, the Cellular Router M330-W provides competitive price-to-performance ratios to help you integrate with the IPTV digital multimedia box flexibly and save your cost.

Product Used



Compact Industrial Cellular Router M330-W

- 1 x 10/100 Base-TX RJ45 LAN port; 1 x 10/100 Base-TX RJ45 WAN port.
- Multi-band support for FDD LTE / TDD LTE / WCDMA / GSM / LTE Cat4.
- IEEE 802.11b/g/n Wi-Fi standards compatibility.
- Built-in micro SIM connector, RS-232 serial port, and DI/DO interfaces.
- Ultra-compact and lightweight metal design with DIN-Rail installation.
- LED indicators for connection and data transmission status.
- Industrial rated from -30 to +70°C for use in harsh environments.
- Flexible power supply range of 8-48 VDC.
- IPv4 and IPv6 dual stack management.
- VPN tunnels, Firewall and cryptographic protocols for cybersecurity.
- Support serial communication protocols for M2M connectivity.

Application Topology



The 4G LTE WiFi Cellular Router M330-W with an outdoor 5-in-1 antenna enhances stable signal in IPTV application for RVs.