

Guadalajara BRT Push-to-talk with Inrico Radios

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Inrico, a leading provider of professional wireless communication solutions, has recently supplied its flagship Push-to-Talk over Cellular (PoC) mobile radios to EB Jalisco, the operator of the toll and electronic payment system for Guadalajara's Bus Rapid Transit (BRT) Macrobus. With Guadalajara being the second-most densely populated city in Mexico and a major international hub for business, finance, and culture, the efficient operation of the Macrobus system is essential for keeping the city moving and ensuring public safety. Inrico's advanced PoC radios have played a crucial role in enhancing communication between buses and the central dispatch, improving operational efficiency and safety.

Challenge

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Before the adoption of PoC technology, Guadalajara's public transportation system relied on traditional analogue two-way radios. While these radios served their purpose, they faced significant limitations, most notably in coverage. The analogue systems struggled to maintain consistent communication across the city's expansive network, particularly in areas with weak signals. This posed challenges in fleet management, real-time tracking, and ensuring the safety of passengers and drivers, especially during emergency situations. There was a clear need for a more reliable, wide-area communication solution to address these issues and improve operational efficiency.

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Solution

In response to these challenges, Inrico, in collaboration with its local partner, provided the Inrico TM-9 PoC mobile radios for EB Jalisco's fleet. These radios, leveraging cellular 3G/4G networks, offer seamless communication anywhere there is cellular coverage. The TM-9 radios enable the dispatch team to communicate in real time with bus drivers, track their locations via GPS, and ensure the efficient operation of the BRT system across the entire Guadalajara metropolitan area.

The TM-9 radios feature a 5-inch screen and a built-in 5W high-power speaker, allowing drivers to check information at a glance and clearly hear voice calls, even in noisy environments. The dual-microphone design ensures superior noise reduction, making communication clearer during the hustle of daily commuting. Additionally, the radios support Bluetooth, Wi-Fi, dual-SIM cards, and GPS, which not only provide continuous communication but also allow for accurate tracking of buses, a key feature for fleet management and emergency responses.

For added convenience and safety, external accessories such as remote speaker microphones and foot switch pedals are available. These accessories enable drivers to operate the radios without distractions, ensuring their focus remains on the road. The TM-9 also features a DB25 interface that can be connected to external cameras, allowing dispatchers to monitor real-time situations onboard. This feature serves as both a surveillance tool and a means of collecting evidence, enhancing security for both the drivers and the public.

Furthermore, Inrico's PoC radios are compatible with a variety of application software, open API interfaces, and SDKs. This flexibility enables operators to remotely monitor bus conditions through third-party PC software or mobile apps, further enhancing operational oversight and situational awareness.



"The TM-9 radio has made communication so much easier—clear sound, reliable connection, and the GPS tracking helps us stay on top of everything. It's a huge upgrade for our buses!"