

## Greek Trolley Buses

Run More Efficiently with Hytera DMR Mobile Radios

**User**  
Greece ILPAP

**Market segment**  
Bus

**Project time**  
2011

**Products**  
MD78XG Mobile Radio

### Solution features

- GPS visualized dispatching
- SMS up to 256 characters
- Superior audio quality of full coverage
- Versatile voice calls, including All call, Group call & Individual call etc.

### Advantages

- Analog-digital interoperability for smooth migration from analog to digital
- Higher spectrum efficiency, lower networking costs
- Superior audio quality in a larger area
- Higher communication confidentiality
- Rich data applications
- Flexible solution developing
- Rugged & reliable terminals complying with MIL-STD-810



MD78XG



### Challenges for Greek Trolley Bus >>

To Greeks, trolley bus is a major travel tool. In 2011, Hytera supplied ILPAP, one of the most important trolley bus operators in Greek, with a robust wireless communications system, covering all the 23 routes run by ILPAP in Athens and Piraeus areas.

The 23 trolley bus routes run by ILPAP cover more than 350km with 80 million annual passenger rides. To enhance operation efficiency and better serve passengers, a highly effective and uncompromising communications system is in urgent demand.

### Hytera DMR Solutions >>

Thoroughly understanding the challenges faced by urban transport industry, Hytera proposed a tailored solution for the unique demands of ILPAP, and provided prototype of Hytera DMR mobile radio MD78XG to ILPAP for trial. Powered by superior performance and versatile functionalities, Hytera MD78XG greatly impressed the customers, especially for functions like GPS positioning, various voice calling, convenient dispatching and text messaging. By the end of April 2011, the initial 180 MD78XG mobile radios were delivered to ILPAP.

Moreover, the Automatic Vehicle Location (AVL) application was applied to the communications system later for better control and dispatching.





## Benefits

### Reduced ownership costs

Reduced costs from high efficiency: Improve overall efficiency of operation and passenger satisfaction by Hytera wireless network built by MD78XG mobile radios. After deploying Hytera mobile radios to ILPAP's trolley buses network, the managers of operator can command and dispatch all the trolley buses more timely and efficiently through functions of GPS positioning, voice calls, text messages and so on.

### Reduced costs from DMR technology

Benefited from the TDMA technology, the system can double the channel capacity based on the same spectrum resource. Besides, Hytera DMR products are compatible with the analog system which ensures a smooth analog-to-digital transition in future.

### Versatile data functionalities

In addition to conventional communication services, users could have access to rich data services and selectable functions such as Message, GPS Dispatching, High-speed Data Transmission and On-line Notification or Auto Registration.

### Powerful terminal radio

The integrated GPS function in Hytera DMR mobile radios supports viewing of positioning information at anytime while the intelligent signaling of DMR supports various voice call types, including Private Call, Group Call, All Call, Emergency Call and Confidential Call.

In addition to conventional voice communication, the system supports many other functions such as data applications, messaging, radio kill/revive, recording, and remote monitoring.

### Enhanced audio quality

With the combined application of narrowband codec and digital error-correction technologies, Hytera DMR solution is capable of ensuring superior voice quality in noisy environments or at the edge of the coverage area.



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