



Reliable Wireless Broadband Connection for Road Transportation Applications

Buses, cabs, and other road transportation applications would benefit immensely from wide, uninterrupted broadband coverage. Until today, it has been pretty much impossible to achieve this with satisfactory results, and the attempts have been costly and time-consuming. Goodmill Systems Ltd. has finally solved these connectivity problems with the help of their ground-breaking Goodmill w24e-T multi-channel router solution.



Unreliable connections decreased efficiency, safety, and customer satisfaction

Road transportation organizations need a reliable data connection for their vehicles. Up until now, complete reliability has been impossible to guarantee due to difficult terrain and the limitations of existing technology. Moreover, critical traffic and passenger traffic need to be separated from each other to ensure safety on-board and passenger satisfaction. And since wide coverage is mandatory for many of these organizations, expansion and maintenance have been costly and time-consuming. Therefore a more reliable solution was needed.

Goodmill w24e-T changed the paradigm of broadband connectivity

The Goodmill w24e-T multi-channel router was purpose-built for road transportation installations where critical connectivity must be ensured in all circumstances. It enables the road transportation organizations to have reliable, secure, and fast broadband connection for communications both inside the vehicle and between the vehicle and the garage/terminal.

Amazing possibilities with the revolutionary broadband concept

Goodmill w24e-T gives you the means to provide reliable broadband data connections for moving vehicles – with extremely wide coverage. This improves efficiency and safety, and makes it possible to offer new real-time services

to passengers. Goodmill w24e-T brings many practical uses:

- Optimize the usage of your fleets with advanced fleet management
- Improve customer service with real-time e-ticketing
- Make the information systems more efficient with reliable location tracking
- Decrease maintenance costs with vehicle diagnostics and condition-based maintenance
- Increase passenger safety and security with remote monitoring
- Enable passenger counting at passenger boarding and alighting points
- Promote your own services and special offers to passengers using an on-board Web portal
- Enable passengers to use reliable internet for work, studying or fun

Main benefits for road transportation organization

- Improves the radio coverage of moving vehicles by combining different radio technologies/service providers
- Reliable broadband connectivity provides new services like passenger WiFi and Infotainment
- Enables you to promote your services and special offers to passengers using an on-board Web portal
- Improves fleet management, security and surveillance. Usage of existing commercial networks saves costs and speeds up service roll-out

Easy to take into use

Thanks to the innovative technology, network complexity has been hidden in a user-friendly package. Goodmill w24e-T is a plug-and-play system that is very simple to take into use. When a new device is about to be installed in the field, its identity is first created in the system database. When configurations are ready, an encrypted installation key is created for each new device.

When an installation key is assigned to a new device, it establishes a secure management channel to the server and downloads the rest of the configuration. If a device needs to be replaced, the correct configuration can easily be downloaded from the database. All faults and events are always sent back to the management system and stored for further use.

After the registration, the device reports all status and fault events with a time stamp to the server database for further use. All the devices can be easily managed using the Goodmill Network Manager software and WAN links. Furthermore, maintenance and updates can be handled quickly and efficiently.

Main features

- True broadband data connection using several commercial networks
- Bandwidth management and QoS for bandwidth optimization
- Parallel 3G connections simultaneously operational
- Option for 802.11 b/g WiFi (integrated)
- GPS positioning of the vehicle
- Supports selecting the wireless WAN connection by location (depot)
- 802.11 b/g access point for in-vehicle WiFi
- Provides reliable connectivity for in-vehicle systems, such as:
 - DVR systems
 - Passenger counter subsystems
 - Ticket or payment systems
 - Infotainment systems
 - Fleet management and remote diagnostics
- VPN functionality for data integrity and session persistence
- Fully remotely managed
 - Physical installation does not require any knowledge of the router configuration



GOODMILL
Always online

Manufactured by
Goodmill Systems Ltd.
Sinikalliontie 10
FI-02630 Espoo • Finland

sales@goodmillsystems.com
www.goodmillsystems.com