



Public Transport Information System

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Overview

- Public Transport Information System is specially designed complex solution which provides public bus traffic information to passengers;
- The solution consists of:
 - Bus Stop Message Boards (LED Displays) installed at bus stop;
 - PTIS (Public Transport Information System) Server designed to manage Boards;

PTIS Server

Public Transport Information System



- Calculates bus arrival time on each stop in real time based on GPS data and bus schedule;
- Manages online information exchange with the Message Boards through the GSM/GPRS network;
- Transfers bus traffic data and other information to each Message Board individually;
- Monitors Message Board state by receiving information from various sensors on the board in real time.
- Can track such events as power interruption, unauthorized access to board and even Message Board teardown;
- Can Individually setup/configure board and remotely update Board's firmware.

Integration

- PTIS is integrated with existing Bus Dispatching System infrastructure;
- Receives information about buses on the route and incidents to reflect this information on Message Board;
- PTIS server receives information about buses location and speed in real time;
- Regularly updates information about bus schedules, and routes

Technical Specifications

- Board Dimensions: 1020 mm X 480 mm (width X height);
- LED Display Dimensions: 960 mm X 384 mm (width X height);
- Display Resolution: 160 X 64 pixels (width X height);
- Pixel Pitch: 6 mm;
- Physical Density: 27777 pixels/m²;
- Number of colors: 1 color - Red;
- Levels of Gradation: 256 levels;
- Brightness; 2000 candles/m²;
- Viewing angle: horizontally 160⁰, vertically – 60⁰;
- Electric Power Supply Voltage: AC 220V, 50 Herz;
- Average Power Used: 50 Kwt/m²;
- The best view distance: from 4 m to 20 m;
- Lifetime: 100 000 Hours;
- Working Temperature: from -20⁰C till +60⁰C.
- Humidity: up to 96%;

Quality / Durability

- Message Boards are usable in open environment (outside buildings or shelters), for 24 hours uninterruptable operation under straight impact of solar beams and atmosphere events;
- Can operate in all weather conditions (rain, snow, direct sunlight) - board meets IP65 standard requirements.
- Special 3 mm upper side cover on each LED designed for protecting from straight impact of sun beams and simultaneous doesn't decrease visibility for observers (passengers);
- Manufacturing and After Sales Service of LED Displays of the Bus Stop Message Boards is certified according ISO9001:2008.

Samples



Bus Stops Message Boards in Tbilisi Streets



Some Statistics

- Message Boards are installed on 450 Bus Stops around Tbilisi
- Serves up to 700 buses on 100 routes
- Everyday several hundred thousand Tbilisi citizens and guests use Public Transport Information System

Thank You!



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