



SIEMENS



# Tram controllers and signals

Light Rail Transit solutions

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Offering new features and new levels of accessibility and safety at complex Light Rapid Transport (LRT) junctions, Siemens ST950 controller delivers full LRT functionality at both LV (230V) and ELV (48V) output drive levels.

The Siemens ST950 controller offers a powerful range of traffic and pedestrian control features, including a sophisticated LRT mode. This is highly configurable to meet the needs of a wide variety of schemes where road and light rail / tram traffic must be controlled in a coordinated way.

The Siemens Tram signals completes the LRT portfolio. Offering all the necessary tram signals aspects in a single compact unit the signal is compliant with TR2514 and available to suit LV (230V) and ELV (48V) controllers.

The use of long-life LED technology minimises power consumption and when operated in conjunction with Siemens Helios traffic signals ensures that full lamp monitoring features are available for all signals.



LRT signal head

## ST950 LRT controller features:

- Fully integrated combined intersection and tram control
- Fully integrated UTMC OTU and MOVA 7 functionality
- Easy to use web based user interface
- Multi-language capability
- Local and remote user access
- 230V and ELV (48V) lamp drive system with compatible tram signals
- Up to 32 phases, 32 stages and 8 independent streams
- Up to 240 digital input/output lines
- Integral lamp monitoring of all phases and signal colours
- Modular construction - available in an outercase or as a 19", 6U rack for use with third party cabinets
- Dual processor safety system and separate 'applications' processor
- Multi-mode operation including advanced 'ripple' stage change algorithm
- Supports configuration changes with signals on
- Fully approved to UK Highways Agency specification TR2500 and TR2513

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## Edinburgh

Edinburgh Trams use our latest ST950 ELV controllers and ELV Tram Signals along the 14km tram route from Edinburgh Airport all the way to the city centre.

These are linked to both the city's traffic control facilities and the signal technology of the trams, providing tram priority at 25 junctions along the popular route.

Trams ply the route up to 100 times a day in bidirectional operating mode. Working as a member of a consortium led by construction group Bilfinger, Siemens supplied key rail infrastructure systems to Edinburgh Trams, including signalling and control, communications and passenger information, traction current supply, catenary equipment, depot equipment and the track system.



## Dubai

The new Dubai Tram System also features ST950 controllers with enhanced software for LRT operation and integral outstation functionality. The project to upgrade traffic signals to meet the specific requirements of the tram project was secured by Siemens in association with the company's partner in Dubai, Scientech. Siemens also provided full in-territory training on installation, configuration and maintenance. Linking the Dubai Metro and the Palm Monorail, the new Dubai Tram System forms an integral part of the Dubai transport network.



## Nottingham

As part of a project to extend the tram network in Nottingham to the south and south-west of the city, Siemens supplied and installed 80 Siemens ELV tram signals, 33 new ST950 ELV junction controllers and eight signalised pedestrian crossings. The network extension more than doubles the size of Nottingham's tram network with 17.5km of new track and 28 new tram stops. Due for completion in 2015, the expanding network will consist of a total of 51 tram stops, with two new lines, 7 park and ride sites and will provide service to approximately 23 million passengers a year.

### Siemens Mobility

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