

Project reference | Singapore Metro

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Siqura is part of TKH Security Solutions, a division of the TKH Group. TKH Security Solutions offers a wide range of systems for access control, surveillance, intrusion detection and video management.



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Project
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Singapore Metro

The city-state of Singapore is one of the wealthiest and most densely-populated nations in the world. Its Singapore Mass Rapid Transit (SMRT) rail network forms the backbone of the city's public transport system. The government is currently expanding the network through the introduction of the Circle Line (CCL), a fully underground orbital line connecting all the MRT routes into the city, at a cost of 6.7 billion US dollars.



51  stations 89.4 km
 500,000  commuters
6.7 billion USD 4.5 million inhabitants 138 m long trains

Customer

Land Transport Authority of Singapore (Singapore)

Systems integrator

Singapore Technologies Electronics, Ltd.

Technology

Fiber-optic transmission equipment

Market

Transportation - Transit

Challenge

Provide high-quality CCTV security for passengers of the Singapore Mass Rapid Transit (SMRT) rail network

Solution

Siquira fiber-optic transmitters and receivers

The challenge

The primary goal of the Land Transport Authority of Singapore is to provide the population of around 4.5 million, plus its 10 million yearly visitors, with a safe, efficient and comfortable means of public transportation.

On completion, the Circle Line is expected to carry around 500,000 commuters per day. It will also be used by a large volume of tourists, the numbers of which are anticipated to increase with the imminent opening of two new integrated (casino and theme park) resorts in the city.

With such a high passenger flow, the monitoring and management of crowd control is of paramount importance. The Singapore government is also dedicated to countering potential terrorist threats to the country across its infrastructure. To address these issues, an extensive CCTV system has been installed incorporating Siquira's fiber-optic transmission equipment.

The solution

Singaporeans are extensive users of public transport and proud of their world-class system. CCL therefore requires state-of-the-art security equipment. Singapore Technologies Electronics, Ltd., the systems integrator for the CCTV project, chose Siquira as an integral supplier for the systems.

Siquira will be responsible for providing the fiber-optic transmission system within each of the CCL stations. The units will relay the collected video, data and alarm signals from the CCTV cameras to each of the station control rooms. The project involves the deployment of four-channel digital video multiplexers, transmitters and receivers from the Siquira Tetra, which will connect the CCTV security system while maintaining high picture quality at all times.

For such a high-profile installation, the customer needed to have complete confidence in its suppliers. Siquira met this expectation through its strong reputation for product reliability and by demonstrating excellent technical support and local knowledge. The project also demanded short lead times for installation, which Siquira was able to meet as a result of close cooperation between its regional office and the factory.