Project reference

Singapore Metro

Customer
Land Transport Authority of Singapore (Singapore)

System Integrator
Singapore Technologies, Ltd.

Technology
Fiber optic technology

Market
Transportation - Transit

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

Solution
Optelecom and Siqura fiber optic transmitters and receivers

Ensuring excellent transit

The city-state of Singapore is one of the wealthiest and most densely- populated nations in the world. Its Mass Rapid Transit (MRT) 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.

Set for completion in 2010, CCL will be 33.3 km long with 29 stations. Its purpose is to cut traveling time by enabling commuters to bypass busy interchanges.

Safeguarding the well-being of the traveling public

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. 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 Optelecom fiber optic transmission equipment.

TKH GROUP SIQURA®

Project reference **Singapore Metro**

Implementing an effective surveillance system.

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 system integrator for the CCTV project, chose Siqura and Optelecom fiber surveilance solutions as an integral supplier for the system.

Siqura 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 Siqura Tetra and Optelecom 9292 series, 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 their suppliers. Siqura 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 Siqura was able to meet as a result of close cooperation between its regional office and the factory.

TKH GROUP SIQURA®