

Client:

M/A-COM for the
Société de Transport
de Montréal

Location:

Montreal, QC, Canada



The STM provides surface and subway mass transit for the City of Montreal. The subway system, known as the Metro, was established in 1966 in time for EXPO'67. It now includes 65 stations and over 759 vehicles operating on 4 lines totaling 65 km.

Trak Com designed and manufactured a custom communications interface for 263 MR63 and MR73 vehicles, to interconnect multiple on-board radios, operator controls and the onboard PA as part of the implementation of a new 900MHZ EDACS trunked radio communications system supplied by M/A-COM. The microprocessor-based interface unit is known as the IRSC (Interface Radio de Sonorisation et de Commande) and provides the following facilities:

- Interfaces to EDACS 900MHz Operate and PA mobile radios
- Interface to an existing Wabco VHF radio to be operated in parallel for the duration of the new system implementation
- Interface to the on-board public address (PA) system
- Interface to parallel operator control panels with speakers and microphones
- RS232 serial service port used to download new firmware and to update programmable parameters
- Automatic routing and level adjustment of radio audio to and from the operator panels and the PA trainline
- Programmable high performance 5/6 tone decoder to facilitate the control of the PA radio and the regenerative braking system from the command center