

Client:
Bombardier Transportation
for The Port Authority of
New York and New Jersey

Location:
JFK International Airport
New York, NY, U.S.A.



The recently opened AirTrain JFK is a 24 hour driver-less advanced rapid transit system operating on an 8.1 mile, predominately elevated, dual guideway. It connects the 8 JFK Airport terminals to the Long Island Rail Road at Jamaica station, and to the Howard Beach subway station. The light rail vehicles provided by Bombardier are 32 new Mark II cars for which Trak Com designed and provided the onboard communications system.

Each vehicle has a Communications Control Unit (CCU) which provides the following facilities:

- Emergency Telephone communications between passengers and central control facilities, using full-duplex 800 MHz radios operating via an existing EDACS trunked radio system
- Half duplex radio communications for Operations and Maintenance personnel using a digital 800 MHz radio
- Onboard Public Address equipment to provide PA announcements generated from onboard communications panels, central control via the emergency radio, or via the Onboard Passenger Information Unit (OPIU)
- Monitoring and reporting of onboard passenger assistance alarms, and smoke and fire extinguisher alarms

The wayside Emergency Radio Interface System (ERIS) supplied by Trak Com consists of fixed EDACS radios and Radio Communications Control Units (RCCs) to send and receive messages between trains and the central control facility. The ERIS also interfaces to a full-duplex telephone interconnect which is used for emergency voice communication between the trains and control.