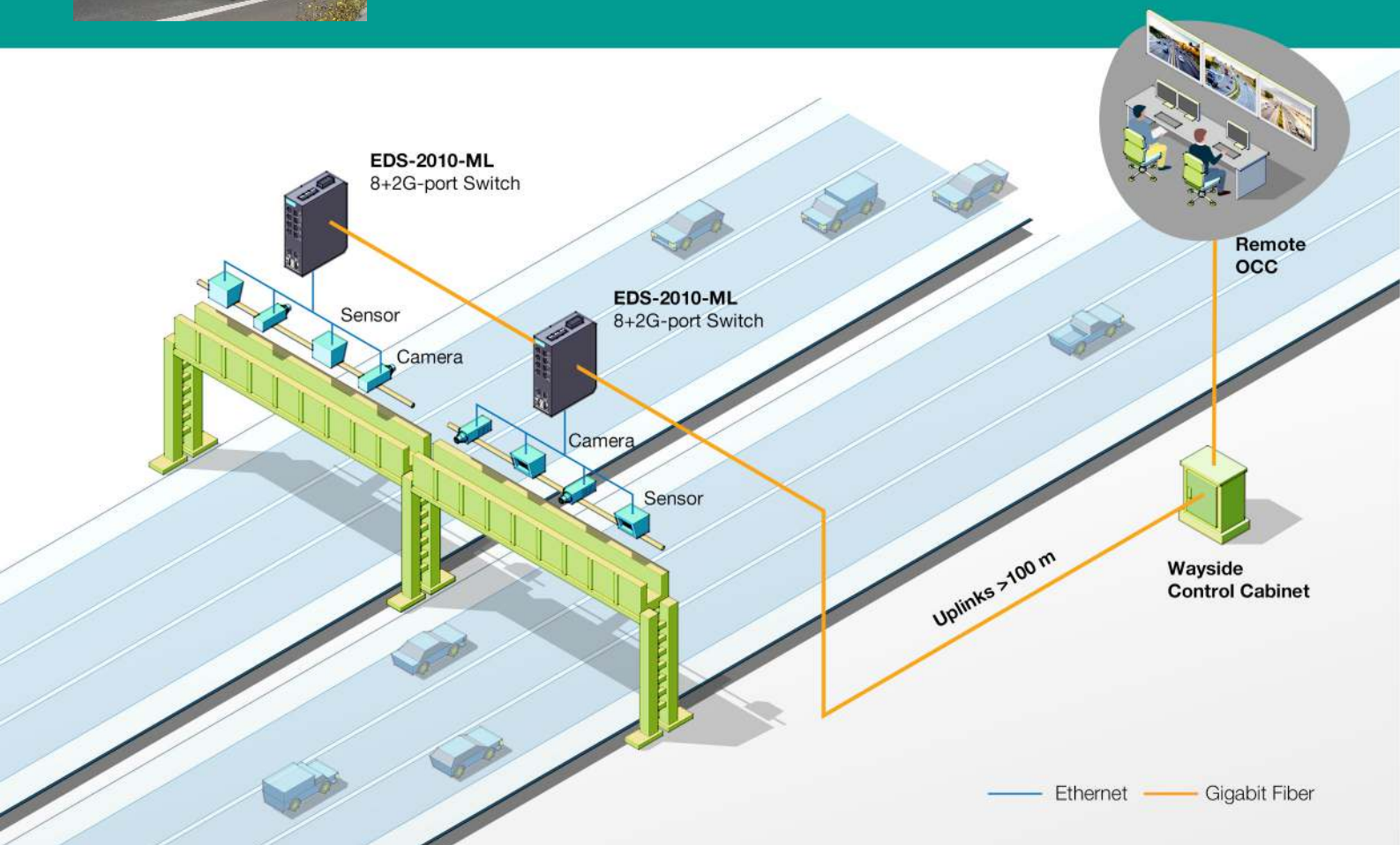# Reliable Data and Image Collection From ETC Gantries

New toll gantries for electronic toll collection were deployed in an open road toll system. The toll gantry required an Ethernet switch that can collect data from vehicle detection and fare deduction equipment, and then uplink to a roadside cabinet as a backhaul to the remote operations center.

EDS-2010-ML
8+2G-port Switch

EDS-2010-ML
8+2G-port Switch

Sensor

Camera

Camera

Sensor

Remote OCC

Uplinks >100 m

Wayside Control Cabinet

—— Ethernet —— Gigabit Fiber

System Requirements

- Durable industrial-grade devices that work reliably in an open road environment
- Connections of over 100 meters to uplink video streams and sensor data to roadside cabinets
- Easy installation and long-lasting reliability to minimize maintenance time on the gantry

Moxa's Solution

The plug-and-play EDS-2010-ML switches are designed to work in a wide temperature range between -40 to 75°C with a MTBF of over 2 million hours. The 8 Ethernet ports are ideal to connect to the equipment on the gantry while the 2 Gigabit combo ports use fiber to transfer data and video streams over long distances to a wayside control cabinet.

Why Moxa

EDS-2010-ML Series

8+2G-port Gigabit industrial unmanaged Ethernet switches

- Two Gigabit combo ports enable long-distance fiber uplinks
- DIP switch and relay alarm minimize configuration and on-site maintenance efforts
- NEMA TS2-certified* and durable operation between -40 to 75°C

Certification pending in Q4 2020

MOXA®