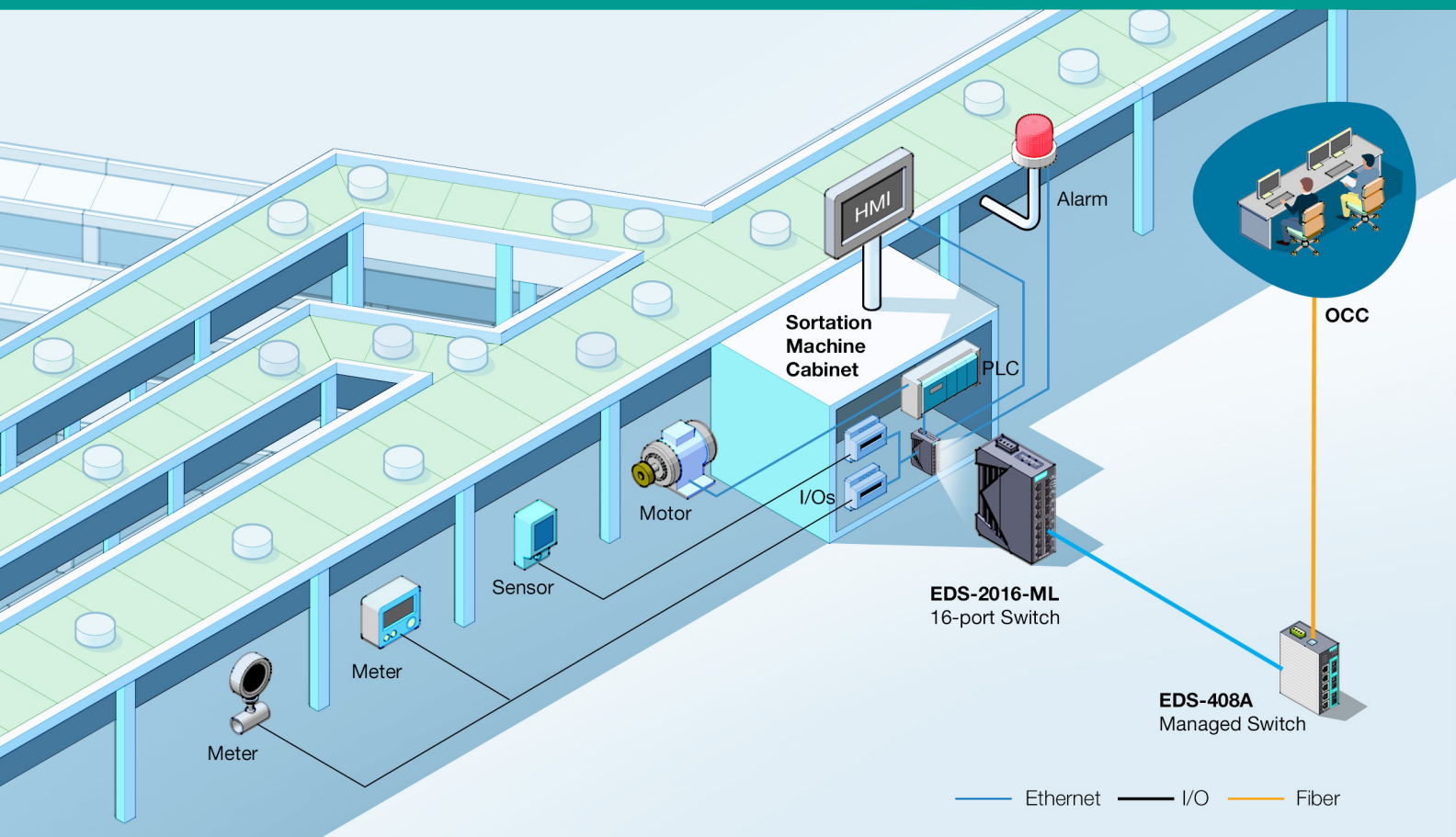




Adopting Automated Sortation For Production Efficiency

A food processing manufacturer has invested in new production assets, including an automated sortation system that can improve food sorting efficiency. Field staff were pleased to work with the automated sorting process but were concerned about unfamiliar network signals or maintenance.



System Requirements

- No IT skills required for rapid deployment, and trouble-free operation and maintenance
- Delivering I/O tagged data with high priority for real-time applications
- Small network switches with high port density that fit in control cabinets holding over 10 devices in a limited space

Moxa's Solution

Slim enough to fit in the control cabinet of sorting machines, the plug-and-play EDS-2016-ML switch connects a wide range of data devices via its 16 Ethernet ports. Working staff can simply flip the DIP switches on the top panel of the EDS-2016-ML to enable the QoS and BSP functions to smoothen network operations by reducing network delays and failures. Thanks to the durable EDS-2016-ML switches, network maintenance is effortless.

Why Moxa

EDS-2016-ML Series 16-port industrial unmanaged Ethernet switches

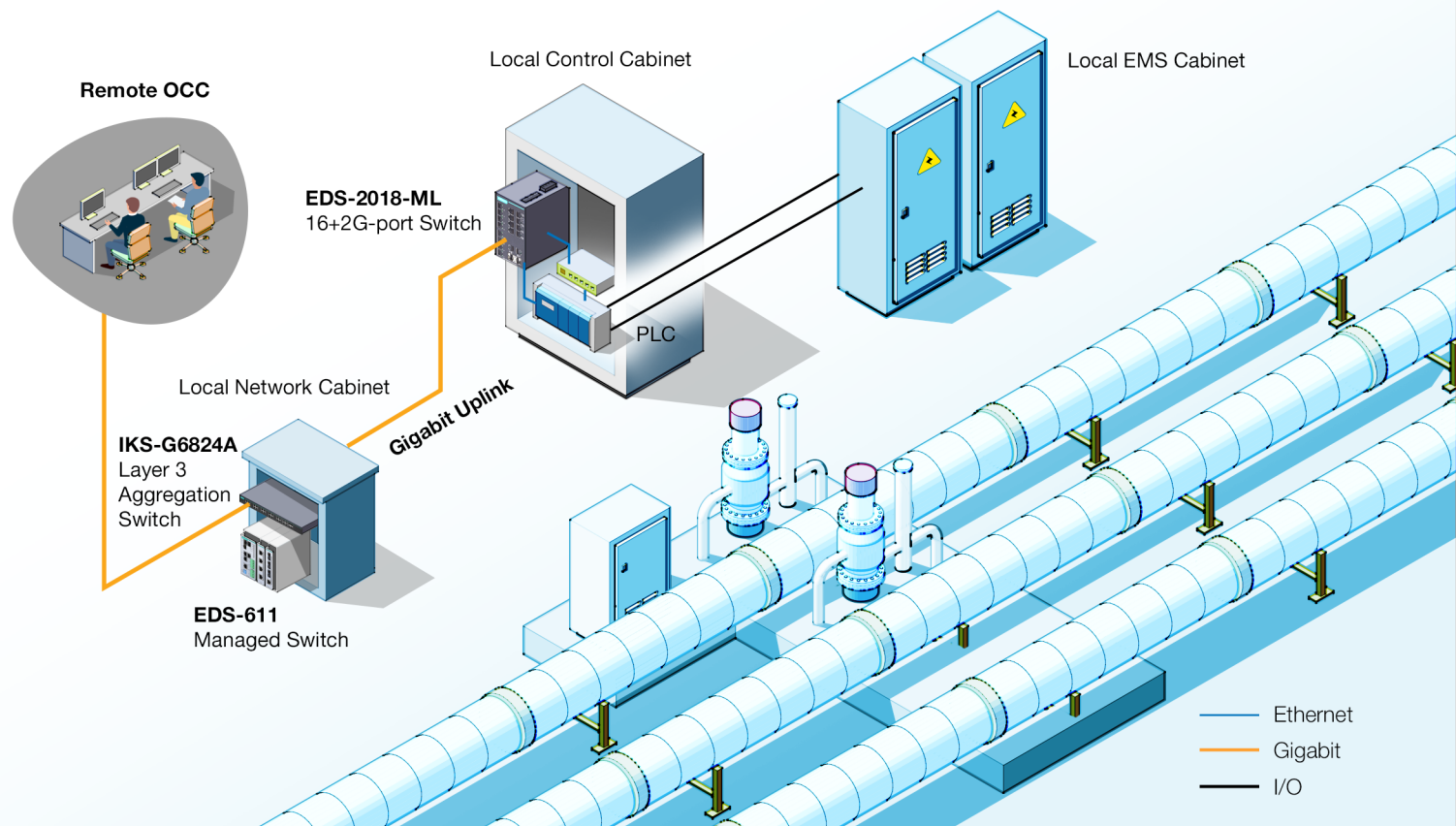


- High port density, slim form factor, and 3-way DIN-rail mounting
- QoS and BSP ensure data stream efficiency, reducing failure rate and data loss
- Relay alarm for on-site monitoring



Field Asset Monitoring Along Pipeline Deployment

An oil and gas company expanded networks to keep up with their crude oil wells exploration. The field network is built to control and monitor field instruments between oil wells, EMS workstations, and the remote OCC control center. The control cabinets were built separately from network cabinets for field operations and required simple but highly reliable connections capable of sending alarm notifications.



System Requirements

- Rugged network devices to operate in hazardous locations
- Instant warning function for on-site monitoring
- Enhanced noise resistance to transfer EMS and I/O data to a local network console

Moxa's Solution

The EDS-2018-ML switches are designed to provide reliable connectivity in hazardous environments, featuring great EMI/EMC resistance, a wide -40 to 75°C operating temperature range, and dual power input for redundancy.

The convenient DIP-switch enabled QoS and BSP improve data efficiency, while the relay alarm will keep field workers alerted of power failures or port disconnections.

Why Moxa

EDS-2018-ML Series 16+2G-port Gigabit industrial unmanaged Ethernet switches

- Relay alarm for power failure or link break warnings
- QoS guarantees high priority for critical industrial protocol data
- NEMA TS2, IECEx, ATEX, Class I Division 2-certified*

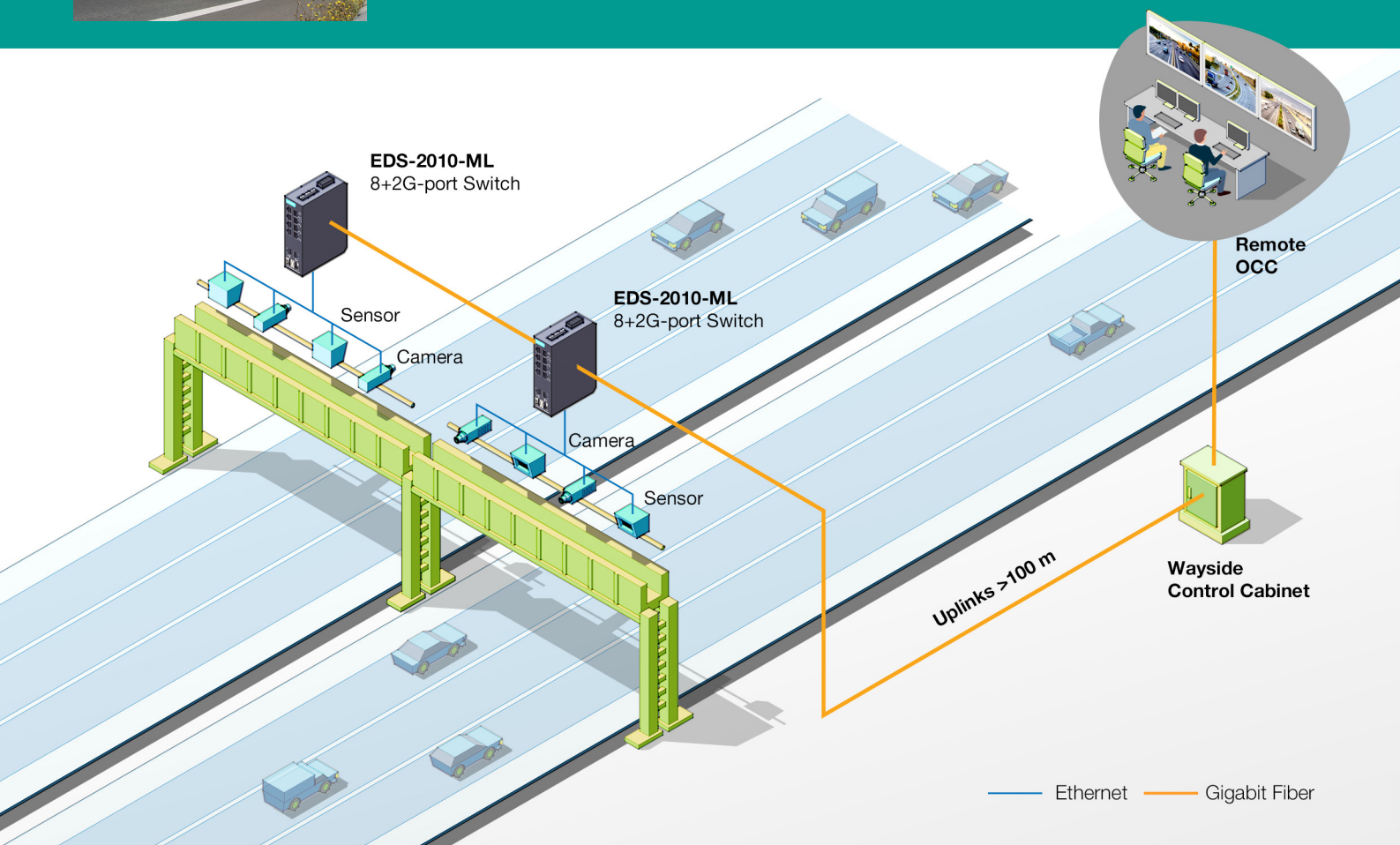
* Certification pending in Q4 2020





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.



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

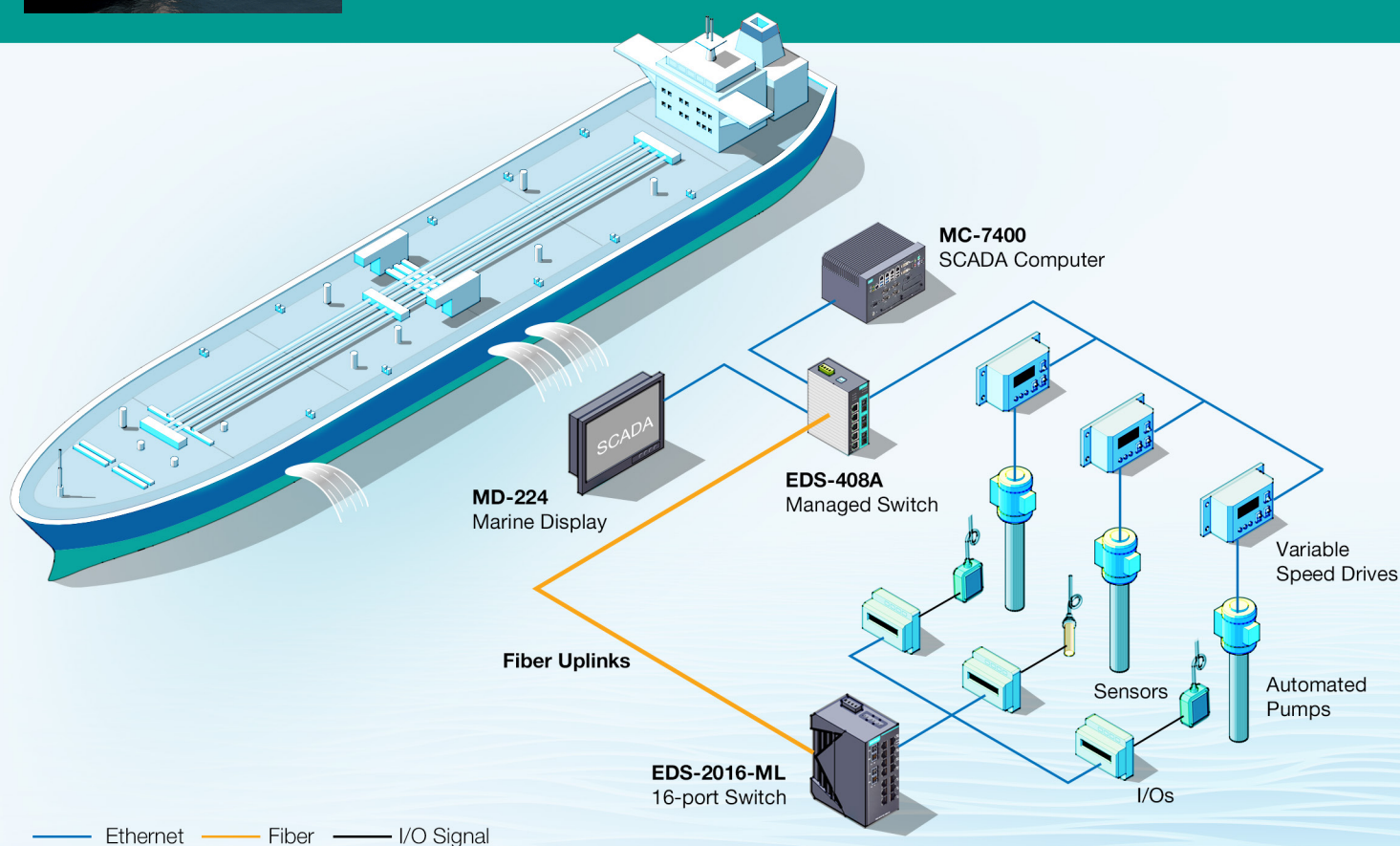
* Certification pending in Q4 2020





Deep Well Pump Monitoring For Automated Marine Application

A ship added data monitoring for deep well pump systems to create self-contained units for marine automation. The pump systems required simple and reliable Ethernet switches to send real-time status information and instant relay alarm warnings to monitor operational safety.



System Requirements

- Maritime-grade devices to withstand on-board vibration
- Wired communication for stability
- Power redundancy to ensure seamless operation

Moxa's Solution

The EDS-2016-ML switches are marine-certified*, featuring dual power redundancy and a wide temperature tolerance between -40 to 75°C. The 16-port unmanaged Ethernet switches make it easy to collect data from a wide array of end-point I/Os and sensors deployed in harsh operating environments. The relay output allows instant alarms for on-site monitoring and troubleshooting.

Why Moxa

EDS-2016-ML Series 16-port industrial unmanaged Ethernet switches



- Rugged design with a high MTBF of over 2 million hours
- DNV GL-certified* and high EMC/EMI resistance (industrial IEC 61000 level 3 criteria A)
- Dual power inputs for redundancy and flexible fiber port combination

* Certification pending in Q4 2020; the fiber models will be available in Q4 2020.