Customer Success Story

Locomotive

propulsion and control network

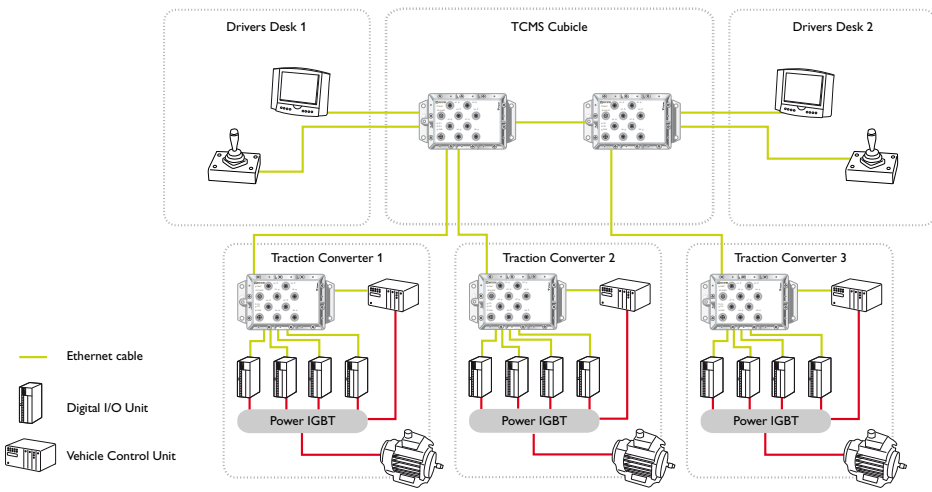
westermo®
Robust Industrial Data Communications – Made Easy

Locomotive propulsion and control network

Westermo has supplied the ultra robust M12 switch platform, Viper, to be used in a electric locomotives ordered by the Chinese Ministry of Railways. The project scope is for more than 500 locomotives into which 2500 Viper switches will be installed. The first locomotive was completed in December 2008 and the project is estimated to be completed by August 2012.

The Viper series fulfilled the customer's demands for a robust switch that could cope with continual engine vibration and surge levels of up to 8.4 kV.

The easy wall mount and the slim design of the housing (W 175 x H 100 x D 50 mm) were other advantages that made the customer choose the Viper. Most importantly the Viper meets the EN 50155 standard for rolling stock applications.



A product range to meet every demand

Westermo provides a full range of data communication solutions for such demanding applications as railways, aeronautics, defence, water treatment, substation automation, roads and tunnels. The staff at Westermo can provide the highest levels of service and technical support to help our customers to choose, configure and install the best solution for each specific application requirement. Our knowledge goes far beyond our own product range; we have a unique competence regarding your environment whether it is on a train, in an aeroplane, on the seabed or in a substation. To ensure a close relationship with the customer, Westermo has a local presence in more than 35 countries. The Westermo product line includes more than one thousand different types and versions of our modems, switches, routers, time servers and converters.

Viper series – Ultra slim M12 switch

The Viper series is a family of two 8-port managed switches with real-time properties for critical applications. The IP65 sealed metal case and rugged M12 front connectors of the unit make it robust and allows for the surrounding air temperature to be between –40 to +70°C. There are no sensitive or fragile components, hardening the product against shock and vibration making these units suitable for rolling stock usage.
The power supply operates over a wide input range from 24 to 110 VDC.

- EN 50155
- 20 ms recovery time redundant Ethernet
- SNMP management facility
- Wide DC power range (24 – 110 VDC)
- No moving parts or electrolytic capacitors
- Ultra low power consumption (3.5 W)
- Sealed to IP65
- SNMP, QoS, HoL

Viper