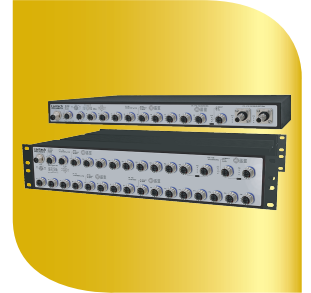# RAILWAY SOLUTIONS

Lantech EN50155 certified Ethernet switches

To ensure safety and efficiency of railway communication networks, Lantech designed a complete EN50155 Ethernet portfolio that focuses on speed, safety, mobility, quality, and durability for railway vehicles and systems.


10G

10GbE copper or fiber to fulfill huge bandwidth requirement

Lantech EN50155 Ethernet switches come with up to 8X 10GbE speed uplink ports which make the series ideal for rail applications.

Layer 3 Lite

Optional Layer3 Lite to be upgradable

- VRRP
- OSPF
- Static route (Up to 32)
- PIM-DM/SSM /SM/BSR
- Rescue mode
- Inter-VLAN Routing
- Router-on-a-stick
- Dual flash images
- Multiple configuration files
- Complete session logging
- SNMPv1, v2c, and v3
- SNMP MIB – RMON
- Command authorization
- Secure Web GUI
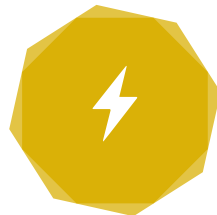
Wide voltage power with high PoE budget & isolation

The switch accept dual 16.8 ~ 137.5 VDC (WVI model) or 16.8 ~ 56 VDC (24TVI model) dual input with Ethernet and PoE galvanic isolation and PoE model can feed 54V output for PoE feeding with up to 160W budget. The inrush current on initial power up can be limited lower than 10 x nominal current.

VLAN for TTDP
DHCP for TTDP

Optional TTDP and R-NAT protocol

The optional TTDP can assign IP and Gateway IP automatically when train network topology is changed due to the adjustment of train cars. The optional R-NAT is under TTDP that simplifies the management of network address translation between ETB and ECN.

Enhanced Cybersecurity

- DoS / DDoS Attack Protection
- IEC 62443-4-1 Certified
- IEC 62443-4-2 Compliance***
- Dynamic ARP Inspection, IPSource Guard, and Port Security
  ***By yearly renew

Layer 3

Optional Layer3 to be upgradable

L3 includes all L3Lite features plus the following features:

- DVMRP
- RIP v1/v2

Rugged design with EN50155 compliance

The switch is designed with up to IP67 enclosure and M12 connectors. With EN45545-2 Fire & Smoke and EN50155 verification, it complaints to the EN50155 Operating Temperature Range Requirement Class OT4.

Optional smart bypass protection

The bypass relay is set to bypass the switch to the next one when power is off to prevent network disruption. Optional smart bypass (Up to three pairs) can be activated when switch encounters power failure or CPU hang.