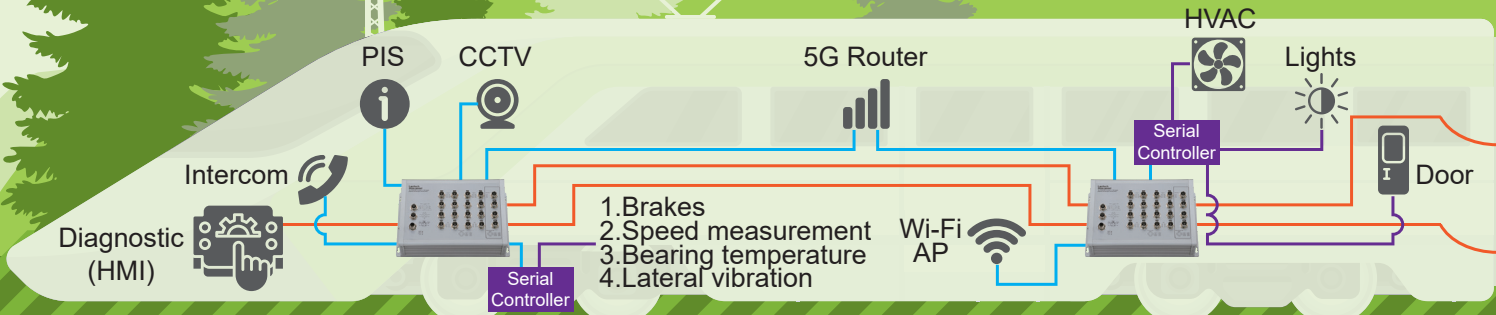


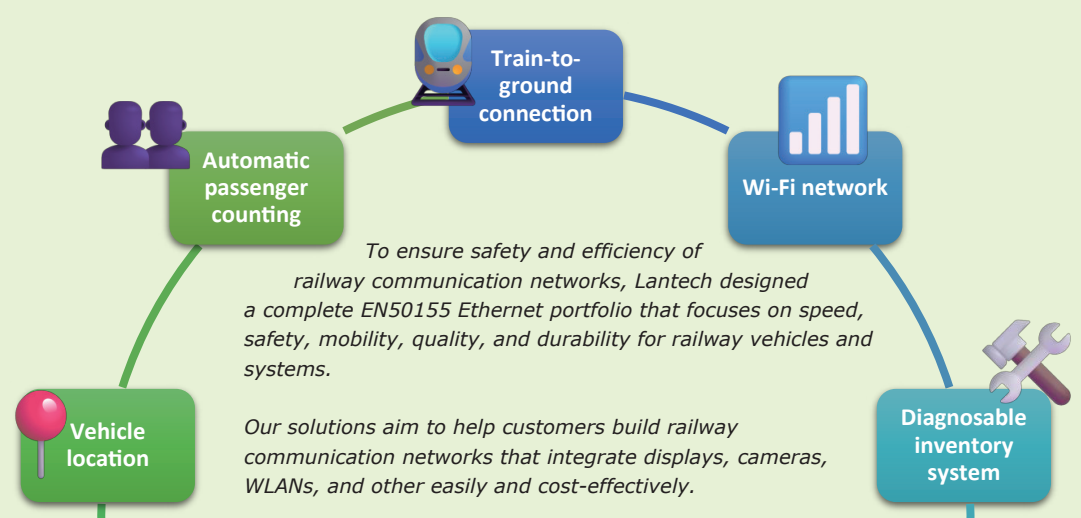


Download Flyer

Rail Networking SOLUTIONS



— 10G Ethernet — 1G Ethernet — Serial



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.

Our solutions aim to help customers build railway communication networks that integrate displays, cameras, WLANs, and other easily and cost-effectively.



10G
Push-pull 10G/2.5G multi-ports for high-speed network
 • 2X, 4X, 6X, 8X 10G/2.5G

PoE / System Galvanic Isolation; Power transient & Inrush current protection
 (Sustain transient up to 165V)

Wide voltage 24TVI/WVI input with 80W/120W/450W PoE budget
 • 24TVI: 16.8~56VDC
 • WVI: 16.8~137.5VDC
 • Perpetual and Fast PoE
 • PoE BT 60W/90W
 • PoE AT 30W

Advanced Security
 • IEC 62443-4-1 Certified
 • IEC 62443-4-2 Compliance
 • DDoS Attack Protection
 • TACACS+ & RADIUS
 • MACsec for high bandwidth security
 • ACL Ingress/Egress
 • SSL/SSH/HTTPS
 • Dynamic ARP Inspection
 • IP Source Guard
 • Port Security

Powerful engine for smooth multiple high resource tasks
 • Hardware NAT/R-NAT/PAT
 • Security encryption
 • L3 protocols:
 RIP v1/v2; VRRP;
 DVMRP; OSPF;
 PIM (DM/SSM/SM/BSR);
 Inter-VLAN Routing;
 Router-on-a-stick

PTP V2 & gPTP
 • Two-step processing
 • 802.1AS (gPTP)
 • IEEE 1588v2 (default)
 • IEEE C37.238-2017
 • Power Profile IEC 61850-9-3
 • TC: Transparent clock
 • BC: Boundary clock
 • OC: Ordinary clock

Complete L2+ (IPv4/IPv6)
 • DHCP option 82 & Port based, Mac based DHCP, Option 7/42/60/66, DHCP Snooping, IPv6 ready
 • PXE
 • OOB
 • MSTP/RSTP
 • IGMP
 • QoS

Linux Bonding for device link redundancy ITU G.8032 Ring for network redundancy

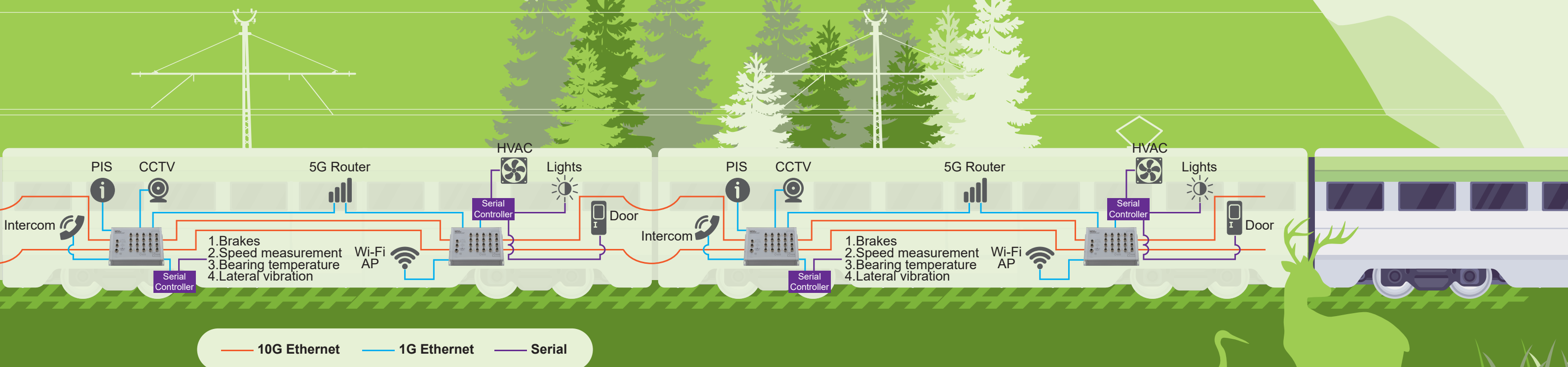
Auto Feed Config for swapped switch & Auto Provision

Support OPEN API document format for Restful API

Health Diagnostic Snapshot & Enhanced Environmental Monitoring

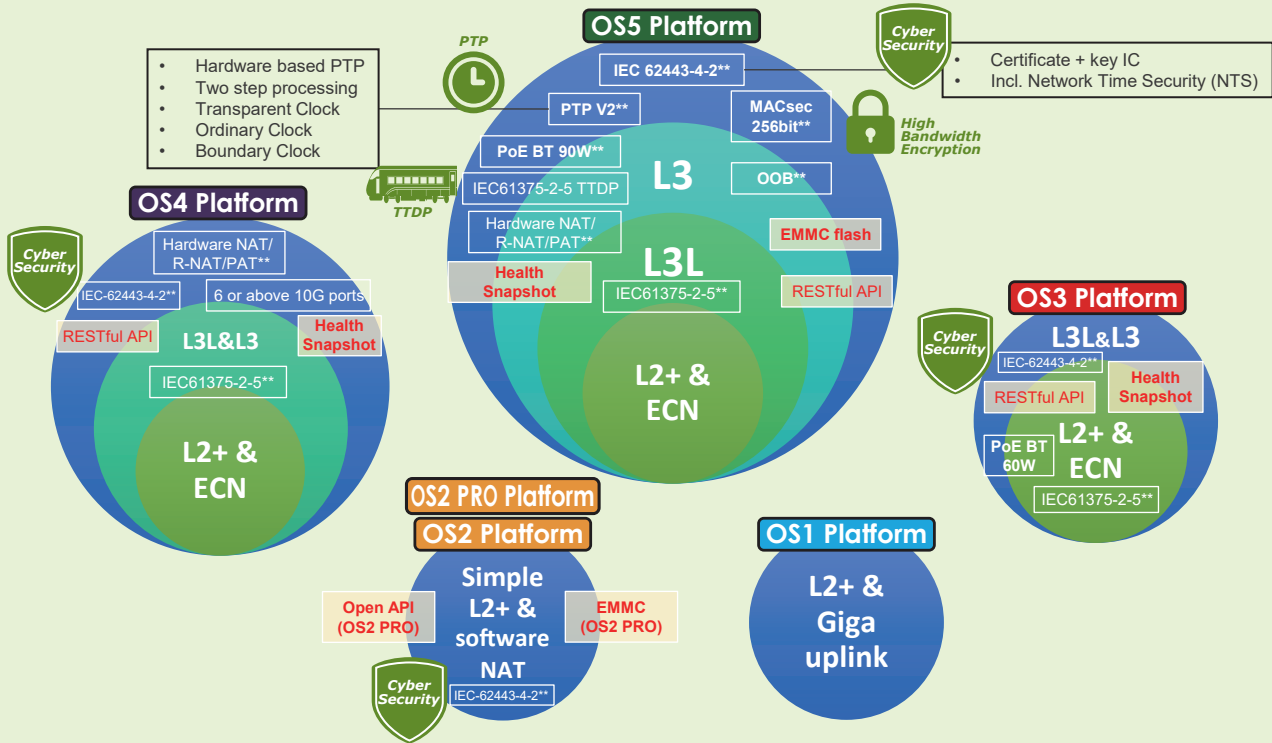
Built-in IEC 61375-3-4 ECN to work with IEC61375-2-5 TBN

Optional Automation Protocols
 • PROFINET
 • MODBUS
 • BACnet



— 10G Ethernet — 1G Ethernet — Serial

Managed Switch Generations



License Pack L3 vs. L3L



	Layer 3	Layer 3 Lite
Unicast Routing: RIP v1/v2	●	
Multicast Routing: DVMRP	●	
Hardware NAT: Static NAT (OS4/OS5)	●	
Hardware NAT: PAT (OS4/OS5)	●	
R-NAT** (OS4 only, built-in IEC 61375-2-5)	●**	
Multicast Routing: PIM (DM)	●	●
Multicast Routing: PIM (SSM)	●	●
Multicast Routing: PIM (SM)	●	●
Multicast Routing: PIM (BSR)	●	●
Unicast Routing: OSPF	●	●
VRRP	●	●
VLAN routing	●	●
DHCP pool with per VLAN	●	●
Static Route	●	●
Rescue Mode	●	●
IP based port	●	●
TTDP (IEC 61375-2-5)**	●**	●**
DHCP for TTDP**	●**	●**
PTP** (OS4/OS5)	●**	●**

**Optional

Our Customers and many more

<p>GERMANY</p> <p>On-board Networking</p>	<p>UK</p> <p>Upgraded Pendolinos</p>	<p>FRANCE</p> <p>Wireless Communication</p>	<p>USA</p> <p>Passenger Wi-Fi</p>	<p>SPAIN</p> <p>Metro Barcelona</p>
<p>NETHERLANDS</p> <p>OBIS Platform</p>	<p>NETHERLANDS</p> <p>GVB Tram</p>	<p>FINLAND</p> <p>Helsinki Tram</p>	<p>AUSTRALIA</p> <p>Sydney Metro</p>	<p>SINGAPORE</p> <p>MRT</p>

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