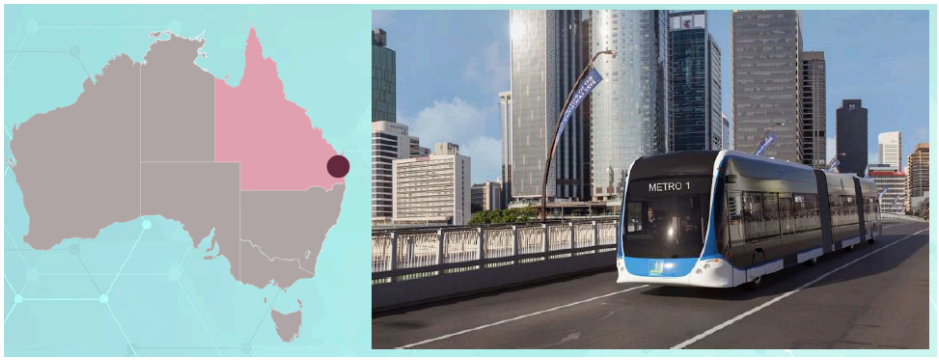
Vehicles

Case Study

- Rail Train System (case-study-rail-train-system.html)
- Vehicles (case-study-vehicles.html)
- Highway / Airport / Tunnel (case-study-highway-airport-tunnel.html)
- City Surveillance (case-study-city-surveillance.html)
- Oil&Gas / Offshore Platform / Maritime (case-study-oil-gas-offshore-platform-maritime.html)
- Power Substation (case-study-power-substation.html)
- Process Control / Mining (case-study-process-control-mining.html)
- Telecom / ISP / Others (case-study-telecom-isp-others.html)

Smart Bus Infotainment System: Enhancing Passenger Experience in Brisbane with Lantech Ethernet Switches



In a pioneering Bus Infotainment Project in Brisbane, our Ethernet switch connects the Automatic Vehicle Announcements (AVA) system and infotainment screens, while also providing robust passenger Wi-Fi. Using a ring topology, four switches in each bus ensure network resilience. The application of VLAN enhances network management and security, improving the overall passenger experience and enabling smarter travel in Brisbane.

Model: TPES-L5416MGT-10-54-24V

- Up to 8/10/16 PoE at/af ports w/advanced PoE management and PoE galvanic isolation; Ethernet power input galvanic isolation
- Lantech OS3 Platform with complete L2 management and upgradable optional L3 & communication protocols
- Enhanced cybersecurity features with IEC 62443-4-1 certification
- Miss-wiring avoidance, node failure protection, Loop protection
- User friendly GUI, Auto topology drawing, Enhanced Environmental Monitoring
- Built-in IEC 61375-3-4 ECN (Ethernet Consist Network) to work with IEC61375-2-5 TBN
- Editable configuration file; USB port for import/export configuration
- Event log & message; 2DI + 2DO; Factory default pin
- Optional smart bypass protection on dual 1G/2.5G copper ports
- Dual WVI / 24V / 24TVI input with max PoE budget and Inrush current protection
- EN50155, EN45545-2; EN61373 compliance; Rugged design with high ESD protection

Model: IPES-5416T-8-54-24VI

- EN50155/EN61373/EN45545-2 verification
- PoE model: IEEE802.3at/af up to 30W per port; PoE management incl. detection and scheduling
- PoE model: WVI dual input steps down to 54V output PoE max.80W; optional 24VI/24TVI input can boost to 54V output PoE max 80W
- PoE galvanic isolation (PoE models); Ethernet isolation (All models)
- Enhanced G.8032 ring protection < 20ms for single ring. Supports auto mode, enhanced mode, train mode, multi-VLAN and basic mode; Enhanced G.8032 ring covers multicast packets; MSTP 16MSTI /RSTP ; support MRP ring
- Miss-wiring avoidance & node failure protection
- Support LACP link aggregation, IGMP v3/router port, MLD snooping, DHCP server & DHCP Option82; DHCP Snooping, Port based DHCP distribution, Mac based DHCP server, QoS by VLAN, SSH v2/SSL, HTTPS, INGRESS/EGRESS ACL L2/L3, QinQ, TACACS+**
- Protocol based VLAN ; IPv4 Subnet based VLAN
- Environmental Monitoring for temp., voltage, current and total PoE load (PoE model)
- Optional bypass in case of power failure, CPU loss (IP67 Only)
- IP67/IP54 housing; User friendly UI, including auto topology drawing; Complete CLI
- N-key configurator** for upgrading, auto/editable configuration back up and restoration without computer

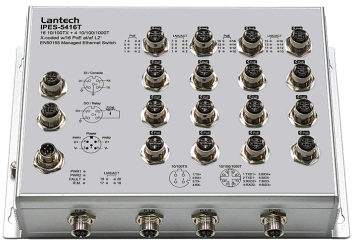
T(P)ES-L5416MGT



16 10/100TX + 4 1G/2.5G Copper (w/8/10/16 PoE at/af)
EN50155 OS3 Managed Ethernet Switch

Learn more (TPES-L5416MGT.html)

I(P)ES-5416T



16 10/100TX + 4 10/100/1000T X-coded L2+ (8/16 PoE at/af)
EN50155 Managed Ethernet Switch

Learn more (IPES-5416T-16_IP67_IP54.html)

About Lantech

Lantech is an IRIS / IEC62443-4-1 certified company as well as a member of ITxPT. Lantech designs and produces a complete family of industrial networking products. For decades, Lantech has provided professional and powerful industrial networking solutions globally. Learn More (about-company-profile.html)

Taiwan Quality

Lantech is dedicated to providing the best quality and service to our customers. We proudly provide up to 5 years warranty to our industrial products. Learn More (support-warranty-policy.html)

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Lantech Pioneering Industrial and IP Networks