



VEHICLE COMMUNICATION NETWORK SOLUTIONS



www.lantechcom.tw

Designed for **Smart Vehicle Applications**

Lantech Vehicle Switches and Routers

The smart vehicle communication network helps improve transportation efficiency, service productivity, safety and customer satisfaction. These are a core competency of enterprises in the future.

There are many IP systems on board modern vehicles as part of the on board communications for example IP cameras (Security Systems), PIS (Passenger Information Systems), PA / Intercom, automatic passenger counting systems, passenger WI-FI, passenger infotainment, real time video streaming & operational support systems such as vehicle tracking and ticketing systems.

Lantech Communications has developed a series of Ethernet switches & multi-functional routers to meet the current E-marking / ITxPT standard for onboard vehicle applications. Lantech Communications is able to provide a complete solution to maximize your fleet efficiency and performance.





About Lantech

Lantech is an IRIS and ITxPT certified company focused on on-board EN50155 and E-Marking Ethernet switches and Wireless /LTE Routers development. Lantech is dedicated to transportation verticals where it covers onboard train/bus, stations, trackside, ITS and smart city. Lantech has been working together with key customers in effort to create up-to-date on-board passenger information, video security, track side data communications by providing rugged 10GbE, PoE Managed switches, LTE/ Wi-Fi Routers, ITxPT and E-mark certified solutions to fulfil various and critical requirements.







*Industrial-grade products

Applications **Bus Communication**



Applications **Autonomous Car**

5G GPS Antenna Antenna Sensor Back Camera "Data transmission between Central Side Back Computer 4K/8K camera, 360 degree Camera Radar camera, sensor, radar, GPS and inertial measurement units" Sensor Ethernet Switch 10 Sensor IPGS-6416XSFP Front Side Radar Camera Front Camera

Ethernet Switches **FEATURE HIGHLIGHTS**

E13 E-marking Certified The E-mark is an EU certification for

proved vehicles and vehicle co into the EU. The certified devices me he basic requirements of safety and nvironmental protection

PT ITxPT Ready

s an ITxPT member and a key sur /nublic transportation industry has access to the ITxPT platform ting our wide range devices in r



Real-time Environmental Monitoring

The enhanced environmental monitoring can detect when the switch's overall temperature, total PoE load, voltage or current are abnormal and it can send syslog or e-mail as a notification.

OS3 Platform



Firmware System Protection

The 4 mechanisms are designed to provide a more reliable firmware system: Boot Loader Protection, Dual Image, Rescue Mode, and NAND Flash Protection.

OS3 Platform



Smart Bypass Protection (Optional)

The bypass relay is set to bypass the switch to the next one when the power is off or the CPU hanged in order to prevent network disruption.



802.3at/af PoE up to 30W per port



Built-in power converter 12/24VDC boost up to 48VDC





10GbE connectivity to fulfill huge bandwidth requirement



Lantech | Pioneering Industrial and IP Networks

ISO 7637-5** Tested

for harmonization of pulse on passenger cars







Inrush current protection



Fan-less design

USB port to upload & download the configuration file



Complete **IGMP**

The unique multicast protection under the enhanced G.8032 ring, can offer immediate self-recovery instead of waiting for the IGMP table timeout. Lantech Ethernet switches also support IGMPv3, GMRP, router port, MLD Snooping and static multicast forwarding binding by ports for video surveillance application.





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M12 10G Uplinks Managed Ethernet Switches



M12 2.5G Uplinks Managed Ethernet Switches



M12 Giga Uplinks Managed Ethernet Switches





M12 Unmanaged Ethernet Switches







RJ45 Managed Ethernet Switches



RJ45 Unmanaged Ethernet Switches







Multi-function Routers FEATURE HIGHLIGHTS





Multisite VPN, OpenVPN and Firewall



Dual Concurrent LTE Design 4G/3G w/ SIM Redundancy

Power input, serial and DI/DO



Support MQTT (Message Queuing Telemetry Transport) as a MQTT publisher

USB port to backup, restore the configuration file and upgrade firmware



2) Model name (P) = PoE model

3) In a continuing effort to improve and advance technology, product specifications are subject to change without notice.

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InstaAir Cloud Based Fleet Management System for Routers

staAir is the leading-edge, end-to-en cloud-based fleet management system for routers. This highly advanced system suppor ul features provide current views of the re device, and custom reports can be set up to monitor critical events and prev

- Real-time Monitoring
 User Authentication

- Zero-Touch Con
- GPS Fleet Manaa
- Remote actions
- Network Troublesh
- Responsive Web

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