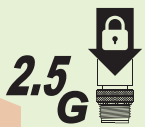




Download Flyer

# Vehicle Networking SOLUTIONS



**2.5G**  
Push-pull\*\*  
2.5G/1G  
multi-ports



**E24**  
E-Marked with  
ISO 16750-2  
(ISO 7637-5)



**Ignition with PoE Off/Timer & ITxPT xStatus protocol**



**PoE budget 80W/120W with PoE / System Galvanic Isolation, Power transient & Inrush current protection**



**Advanced Security**

- IEC 62443-4-1 Certified
- IEC 62443-4-2 Compliance
- DDoS Attack Protection
- HTTPS/SSL/ACL/SFTP
- Firewall



**NAT Router with L3 Routing**

- PAT: many to 1
- Port forwarding
- L3: Static route
- L3: RIP/OSPF

**Layer 2+**



**OPEN API document format for Restful API; CLI & Web GUI**



**Auto Feed Config for swapped new switches**



**EMMC Firmware**



**mDNS, DNS server/client**



**MQTT broker & publisher**



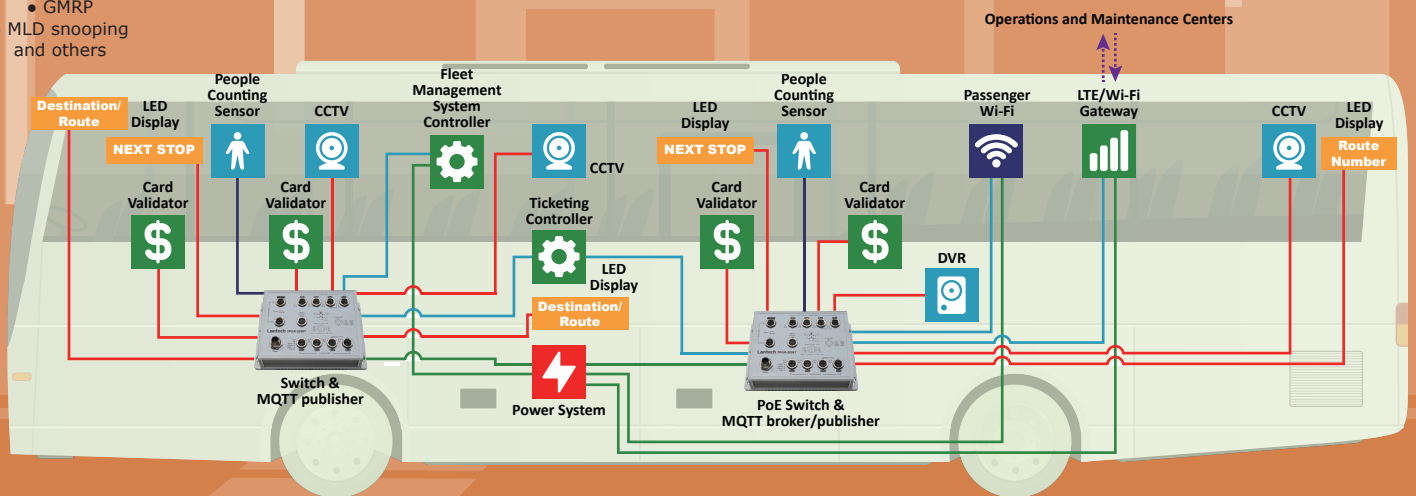
**Health Diagnostic Snapshot\*, Watchdog, Topology View & Enhanced Environmental Monitoring**

**Complete DHCP**

- Port-based DHCP
- Mac-based DHCP
- DHCP Option 82/66
- DHCP relay

**Complete IGMP**








- IGMP snooping v1,v2,v3
- 1024 multicast groups
- IGMP router port
- IGMP query
- GMRP
- MLD snooping and others



— PoE — PoE & MQTT — MQTT — Ignition



\*Future release \*\*Optional

# E-Marked + Ignition + ITxPT Product Line-ups







Managed Ethernet NAT Router Switches OS2 PRO Platform			Web Managed Ethernet Switch OS2 PRO Platform	Unmanaged Ethernet Switches		
						
<b>T(P)GS-3208MGT</b> 2 2.5G + 8 GE (POE) <b>T(P)ES-3208MGT</b> 2 2.5G + 8 FE (POE) <b>T(P)GS-3208T</b> 2 GE + 8 GE (POE) <b>T(P)ES-3208T</b> 2 GE + 8 FE (POE)	<b>T(P)ES-3216MGT</b> 2 2.5G + 16 FE (POE) <b>T(P)ES-3212MGT</b> 2 2.5G + 12 FE (POE)	<b>T(P)GR-3208T</b> 2 GE + 8 GE (POE) <b>T(P)ER-3208T</b> 2 GE + 8 FE (POE) <b>WAN port</b>	<b>T(P)ES-3008</b> 8 FE (POE)	<b>T(P)ES-0216MGT</b> 2 2.5G + 16 FE (POE) <b>T(P)ES-0212MGT</b> 2 2.5G + 12 FE (POE)	<b>TES-0008D</b> 8 10/100TX	<b>T(P)GS-0008CB</b> 8 GE (POE) <b>T(P)ES-0008CB</b> 8 FE (POE)
				<b>T(P)ES-0105T</b> 5 FE (POE) + 1 GE		

## E-Marked + Ignition Product Line-ups

Unmanaged Ethernet Switches

	
<b>I(P)ES-0016C</b> 16 FE (POE)	<b>I(P)ES-0008C</b> 8 FE (POE)

## E-Marked Only Product Line-ups

Managed Ethernet Switches			Unmanaged Ethernet Switches		
OS3 Platform	OS2 Platform	OS1 Platform			
					
<b>T(P)ES-L5416MGT</b> 4 2.5G + 16 FE (POE) <b>T(P)ES-L5416MGFT</b> 4 2.5G + 16 FE (POE) <b>T(P)ES-L5408MGT</b> 4 2.5G + 8 FE (POE) <b>T(P)ES-L5408MGFT</b> 4 2.5G + 8 FE (POE)	<b>I(P)GS-5416MGSFP</b> 4 2.5G + 16 GE (POE) <b>I(P)GS-5016</b> 16 GE (POE)	<b>I(P)GS-3008</b> 8 GE (POE)	<b>T(P)GS-0208T</b> 2 GE + 8 GE (POE) <b>T(P)ES-0208T</b> 2 GE + 8 FE (POE)	<b>I(P)GS-0016</b> 16 GE (POE) <b>I(P)ES-0016</b> 16 FE (POE)	<b>I(P)GS-0008B</b> 8 GE (POE) <b>I(P)ES-0008B</b> 8 FE (POE)
			<b>I(P)ES-3416DSFP</b> 4 GE + 16 FE (POE) <b>I(P)ES-3016DSFP</b> 16 FE (POE)		

## Our Customers and many more

<b>GERMANY</b> Gütersloh City BUS 	<b>ISRAEL</b> MERKAVIM BUS 	<b>EGYPT</b> Police Car 	<b>SLOVENIA</b> Ljubljana City BUS 
<b>SPAIN</b> Seville City BUS 	<b>SPAIN</b> Guaguas City BUS 	<b>ITALY</b> Tourin City BUS 	<b>ITALY</b> Milan City BUS 
		<b>ITALY</b> Parma City BUS 	

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