



Rugged M12 Connectors

- Use rugged M12 industry standard connectors to anti vibration, shock
- EN50155, IEC-61373 certification
- Suitable for applications such as rolling stock, railway, buses, subways and vibration environment automation.



On Board Train



Public Transportation



Vibration Environment



Vibration Environment

IP67 waterproof design

- IP67 water proof to protect against dust, oil and water
- meet the most rigorous standards for automotive, manufacturing, oil, gas, mining, outdoor, and other industrial environments



Water utility



Dusty environment



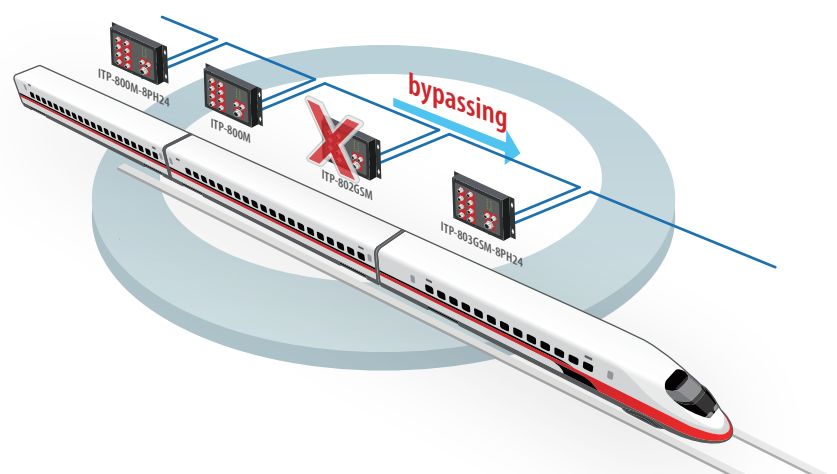
High humidity environment



Chemical factory

Copper Interface Bypass Relay Function in Daisy Chain Topology

- Offer two copper interfaces with auto bypass relay functions
- Used in daisy chain or linear topology structure
- Activated automatically when power failure occurs
- Ensure links between carriages operate uninterruptedly and continuously



EN50155 PoE Switch



- Built in 2 Bypass port
- Built in **24/48VDC** (20~57VDC) **Redundant** dual input power
- Very High Efficiency **Boost (94%~97%)** Technology
- **Regulated** PoE output voltage at 55VDC
- **SmartConfig™** and **SmartView™** Management (Managed model)
- Advance PoE Management (weekly scheduling) (Managed model)
- PoE PD Failure Auto checking and auto reset (Managed model)
- u-Ring (Multiple Ring) , ITU-T G.8032 ERPS, MSTP, RSTP, STP For Redundancy cabling (Managed model)
- SNMP, Web, Telnet, CLI, IPV6, DHCP, RMON, MIB II, ACL, QoS, CoS, Security, IGMP, VLAN, LACP, **IEEE1588 PTP V2**, Green Ethernet, Cable Diagnostic (Managed model)

Model Name	Managed	IP67	Total Port	UTP M12		Fiber 100/1000 Base-X	PoE Port IEEE802.3at	Certification				Vibration IEC61377	
				10/100 Base-TX	10/100/1000 Base-T			EN50155	EN50121-4	UL60950-1	EN61000-6-2 EN61000-6-4		CE FCC
IIP-800-8PH24		✓	8	8			8	✓	✓		✓	✓	✓
IIP-802GTM-8PH24	✓	✓	10	8	2		8	✓	✓	✓	✓	✓	✓
IIP-802GSM-8PH24	✓	✓	10	8		2 SFP	8	✓	✓	✓	✓	✓	✓
IIP-800M-8PH24	✓	✓	8	8			8	✓	✓	✓	✓	✓	✓
IIP-G802SM-8PH24	✓	✓	10		8	2 SFP	8	✓	✓	✓	✓	✓	✓
IIP-G800M-8PH24	✓	✓	8		8		8	✓	✓	✓	✓	✓	✓

EN50155 Ethernet Switch



- Built in 2 Bypass port
- **Redundant** and wide input range voltage, Low voltage 12/24/48VDC (8.4~60VDC) or High Voltage (110/220VDC or 110/220VAC) (Managed model)
- **SmartConfig™** and **SmartView™** Management (Managed model)
- u-Ring (Multiple Ring) , ITU-T G.8032 ERPS, MSTP, RSTP, STP For Redundancy cabling (Managed model)
- SNMP, Web, Telnet, CLI, IPV6, DHCP, RMON, MIB II, ACL, QoS, CoS, Security, IGMP, VLAN, LACP, **IEEE1588 PTP V2**, Green Ethernet, Cable Diagnostic (Managed model)

Model Name	Managed	IP67	Total Port	UTP M12		Fiber 100/1000 Base-X	EN50155	EN50121-4	UL60950-1	EN61000-6-2 EN61000-6-4	CE FCC	Vibration IEC61377
				10/100 Base-TX	10/100/1000 Base-T							
IIP-500		✓	5	5			✓	✓		✓	✓	✓
IIP-800		✓	8	8			✓	✓		✓	✓	✓
IIP-802GTM	✓	✓	10	8	2		✓	✓	✓	✓	✓	✓
IIP-802GSM	✓	✓	10	8		2 SFP	✓	✓	✓	✓	✓	✓
IIP-800M	✓	✓	8	8			✓	✓	✓	✓	✓	✓
IIP-G802SM	✓	✓	10		8	2 SFP	✓	✓	✓	✓	✓	✓
IIP-G800M	✓	✓	8		8		✓	✓	✓	✓	✓	✓



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