Railway

Establish Robust and Secure Railway Networking Solutions

Railway transportation systems, often regarded as locomotive industry, are important in many developing and developed countries. For example, well-built high-speed railway infrastructure can bring rapid economic growth to an entire country. With such importance of railway systems, dependable safety management of railway traffic is absolutely necessary, calling for the need of rugged network capable of handling massive real-time traffic information accurately without interruptions. It is not easy, however, to sustain reliable network service in such a high-speed moving platform of high-speed railway, since data can be affected by the train's fast speed and associated vibrations. Nevertheless, ORing, with industry-leading expertise of industrial networking, has successfully provided the complete railway networking solution for the Beijing-Shanghai High-Speed Rail – also known as the Jinghu High-Speed Rail.

Key Products

IPS-3082GC
10-port managed PoE Ethernet Switch
- 8x10/100Base-T(X) PoE(P.S.E.) ports and 2xGigabit combo port
- 8 port P.S.E. fully compliant with IEEE802.3af standard; provides up to 15.4 Watts per port
- Rigid IP-30 housing design, -40° to 70°C operating temperature range

RGPS-7244GP
28-port rack-mount managed Gigabit PoE Ethernet Switch
- 24x10/100/1000Base-T(X) P.S.E. ports (up to 30W) and 4x1000Base-X SFP socket
- O-Ring (recovery time < 20ms over 250 units of connection), MSTP/RSTP/STP for Ethernet Redundancy
- Supports ACL, 802.1x User Authentication for security and 9K Bytes Jumbo frame

TES-3080-M12
EN50155 8-port managed Ethernet Switch
- 8x10/100Base-T(X), M12 connector to ensure tight, robust connections
- IP-40 grade protection, -40° to 70°C operating temperature
- Designed for rolling stock, vehicle, and railway applications
- Support PTP Client (Precision Time Protocol) clock synchronization
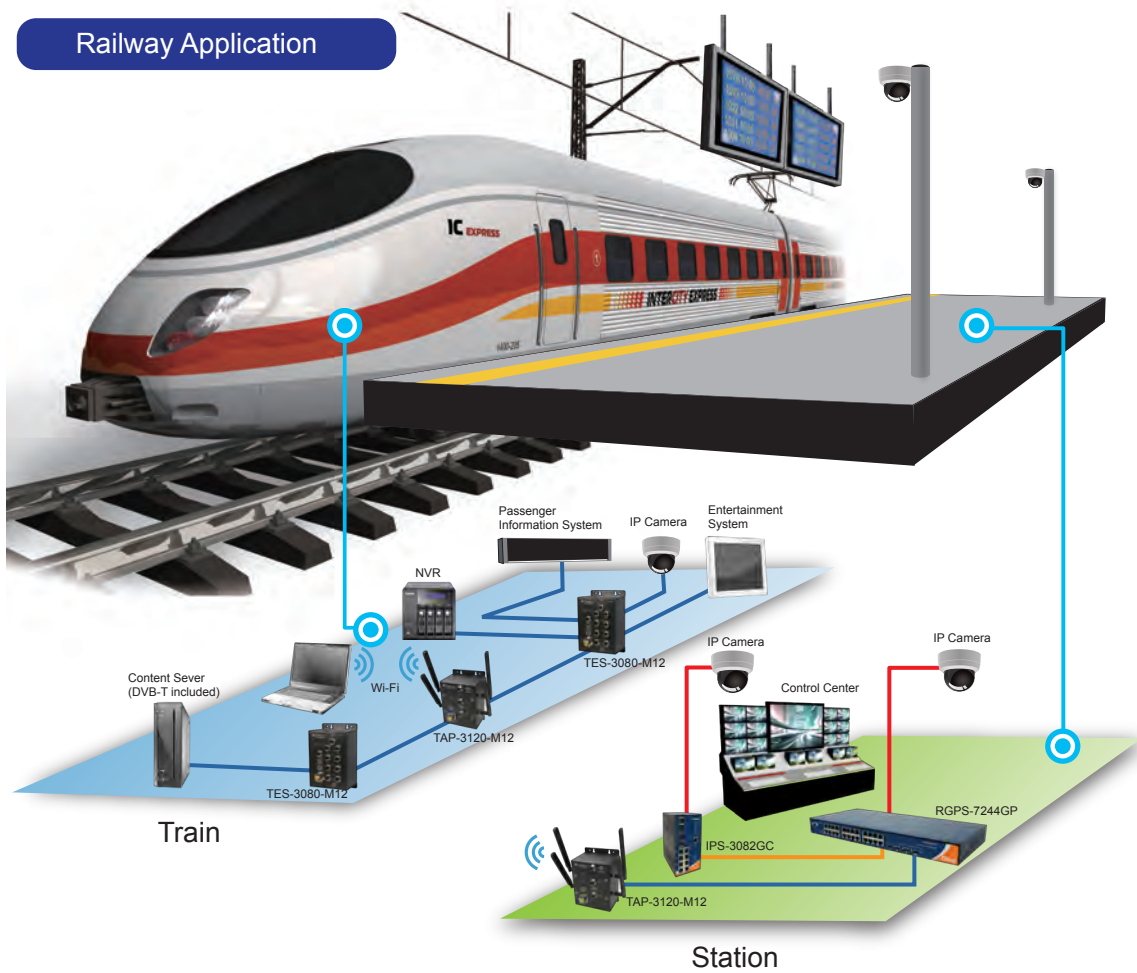
TAP-3120-M12
EN50155-certified Dual IEEE 802.11 a/b/g and 802.11 b/g wireless AP
- 2x10/100Base-T(X), M12 connector to ensure tight, robust connections
- IP-40 grade protection, -40° to 70°C operating temperature
- Designed for rolling stock and vehicle applications
- Dual high Speed Air Connectivity: WLAN interface supporting up to 54Mbps link speed

Railway Application

Train

- Content Sever (DVB-T included)
- TES-3080-M12
- Wi-Fi
- TAP-3120-M12
- NVR
- Passenger Information System
- IP Camera
- Entertainment System
- TES-3080-M12

Station

- IP Camera
- Control Center
- IP Camera
- IPS-3082GC
- RGPS-7244GP
- TAP-3120-M12

| Optic Fiber | CAT5e | PoE Link |

Track Side Application

- IGS-3032GC
- RGS-7168GCP
- IGS-3032GC
- IGS-3032GC
- Track Side Control Cabinet
- IP Camera
- IGS-3032GC
- RGS-7168GCP
- Signaling Equipment
- IDS-5042
- IP Phone
- O-Chain
- IGS-3032GC
- IGS-3032GC
- Track Side Control Cabinet
- RGS-7168GCP

O-Chain