ORing ORing Industrial Networking Corp.
Designed for Rugged Excellence.

ORing Overview

As a global leading brand, ORing Industrial Networking Corp. was established by a group of experienced industrial software and hardware engineers in 2005. Since its establishment, ORing has focused on the innovation of Industrial networking products and has developed a complete product portfolio, such as industrial-grade media converters, Ethernet switches, wireless routers and device servers. ORing has passed the ISO9001:2008 Quality and Management System certification and been accredited with numerous international certifications, providing evidence of product quality and regulatory compliance. Our numerous products have been successfully deployed in various applications throughout the world, such as railway/highway monitoring, intelligent transportation systems, building automation, etc. ORing is committed to providing world-class products, strong technical support, and the best after-sale service.

Product Coverage

ORing Industrial Networking Corp. offers a wide variety of products for all of your industrial networking needs. ORing's complete product portfolio consists of industrial Ethernet switches, industrial media converters, industrial device servers, industrial wireless access points, industrial cellular VPN routers, accessories, and network management software.

You can find the right products for you easily based on network speeds (Gigabit, fast, etc.), mounting options (rack-mount, DIN-rail, wall-mount, as well as other special-installation types), data transmission types (regular Ethernet, weatherproof Ethernet, PoE, wireless LAN, etc.), applications (railway, oil & gas, etc.), and many more.

Product Applications

■ Industrial Focus

- IP Surveillance
- Railway Automation
- Intelligent Transportation System

■ Vertical Markets

- Manufacturing Automation
- Intelligent Transportation System
- Building Automation
- City Surveillance

- Resource & Power
- Renewable Energy
- Railway
- In-Vehicle Surveillance

Customer-Oriented R&D

ORing's innovations are geared to meet customers' needs. ORing's R&D team insists on developing stable, reliable, well-tested, and cost-effective industrial networking products. ORing R&D team accounts for one-third of the total workforce and has a vast knowledge and experience in the industry. ORing's R&D team work closely with project managers to develop innovative products based on customers' requirements. Apart from standard products, ORing's R&D team also conduct customized product design and in-house testing to ensure all products meet high quality requirements. Customers' feedback will be forwarded to our R&D team so they can make product improvements or develop new products that fulfill customers' expectations.

1 IEIMobile Solutions

2 Automation Panel Solutions

3 Healthcare Panel PC Solution

4 Industrial System

5 ORing Network Communication

6 Automation Control

7 Optional Peripherals

Quick Time-to-Market Product Solution

ORing has been known for its ability to provide products with a swift time-to-market as evidenced by the provisioning of the solution for the Beijing-Shanghai High-Speed Rail project, also known as the Jinghu High-Speed Rail, in 2010. The whole process from receiving the customer's requirements to product delivery took only three months. ORing's R&D team also possesses complete OEM/ODM capabilities and expertise in project planning, custom solution development, and technical support.

Quality Assurance

Comprehensive quality assurance tests are performed on all ORing products throughout the product development cycle to make sure the products achieve high quality standards.We have SMT lines that run with high speed mounting and dedicated staff for different QA procedures such as stencil cleaning, automatic optical inspection, burn-in testing, and RoHS compliance testing.

All ORing products are covered by a warrant for up to five years. To provide real-time services to customers, ORing has sales offices and distributors around the globe. The OCE (ORing Certification Engineer) training program enables ORing and its distributors to provide professional services and support for ORing customers.

For maximum customer satisfaction, ORing products come with up to 5 years of after-sales warranty.

Green Commitment

ORing has commitment to help creating and maintaining a safe and clean environment. All of ORing's products are qualified with European Union's WEEE and RoHS directives. ORing works together with industry suppliers to offer eco-friendly products that are free from lead and five other hazardous materials (as prohibited by RoHS Directive).

Compliant Standards and Regulations

IRIS	IRIS
ISO	ISO 9001:2008
Internet	IPv6
TUV	EN60950
FCC	Part 15B, Part 15C, Part 15E
CE	EN55011, EN55022, EN61373, EN62311, EN300328,EN301893, EN301489-1-17,EN55024
UL	UL60950, UL60601, UL508
CB	IEC60950
VCCI	Class A and Class B
C-Tick	AS/NZS CISPR22
Power Substatin	IEC-61850-3, IEEE1613
Railway	EN50155, EN50121-4, EN45545
Marine	EN60945, IEC60945
CID2	C1D2, ATEX, IECEx
E-mark	E24

Global Sales and Service

ORing-Headquarters

ORing Industrial Networking Corp.
Address: 3F., No.542-2, Zhongzheng Rd., Xindian Dist., New Taipei City 23148, Taiwan (R.O.C)
TEL: + 886-2-2218-1066
FAX: + 886-2-2218-1014
e-mail: info@oring-networking.com
Sales inquires: sales@oring-networking.com
Service & Support: support@oring-networking.com

ORing-China

TEL: + 86-21-64055815
FAX: + 86-21-64055811
e-mail: marketing@oring-china.com

ORing-USA

e-mail: oring_us@oring-networking.com
Service & Support: support_usa@oring-networking.com

ORing Highlight Products

Redundant Power		IEC 61850: Power Utility Certified	
O-Ring: ORing's proprietary redundant ring technology		EN 50155: Railway Certified	
PD: PoE Powered Device		X-Roaming: Support X-roaming	
PSE: PoE Power Sourcing Equipment		IP67: Waterproof model	
Full Gigabit		RS232/422/485: Serial Port interface	
WIFI		SSL: Secure Sockets Layer protocol	
3G/4G LTE		VPN: Supports VPN for secured network connection	
Operating Temperature		Isolation: Serial port with Isolation	
Bypass			

Desktop-type Ethernet Switch

DGS-R9812GP-AIO_S
Layer-3 8G+12G SFP Ports Managed Desktop Gigabit Ethernet Switch

Rack-Mount Ethernet Switch

RGS-PR9000
Layer-3 IEC 61850-3 modular rack mount managed Gigabit Ethernet switch with 4 slots

Gigabit PoE Ethernet Switch

IGPS-9842GTP Series
8G P.S.E.+4G+2G SFP Ports Managed Gigabit Ethernet Switch

RGPS-R9244GP+-P
Layer-3 24G P.S.E.+4 1G/10G SFP Ports Managed Gigabit Ethernet Switch

IGPS-9080 Series
8G P.S.E. Ports Managed Gigabit Ethernet Switch

RGPS-92222GCP-NP Series
22G P.S.E.+2G Combo P.S.E.+2G SFP Ports Managed Gigabit Ethernet Switch

IGPS-9042GP-24V
4G P.S.E.+2G SFP Ports Managed Gigabit Ethernet Switch

ORing Highlight Products

IRIS Certification EN50121 EN50155 **Transporter Series**

EN50155 Ethernet Switch

IGS-9122GPM

EN50155 modular managed Gigabit Ethernet switch with 12x10/100/1000Base-T(X) and 2x100/1000Base-X, SFP socket, 3 module extender slots

TES-3162GT-M12-BP1

EN50155 16+2G Ports, 1xBypass, Managed Ethernet Switch

TES-180-M12

EN50155 8-Ports Unmanaged Ethernet Switch

TPS-141TX-M12 Series

EN50155 4 P.S.E.+1 Ports, Unmanaged Ethernet Switch

EN50155 Ethernet Switch

TPS-3162GT-M12-BP1 Series

EN50155 16 P.S.E.+2G Ports, 1xBypass, Managed Ethernet Switch

TPS-3882GT-M12-BP1 Series

EN50155 8 P.S.E.+8+2G, Ports, Managed Ethernet Switch

TGPS-9084GT-M12-BP2 Series

EN50155 8G P.S.E.+4G Ports, 2xBypass, Managed Gigabit Ethernet Switch

TGPS-9164GT-M12-BP2 Series

EN50155 16G P.S.E.+4G Ports, 2xBypass, Managed Gigabit Ethernet Switch

1 IEIMobile Solutions

2 Automation Panel Solutions

3 Healthcare Panel PC Solution

4 Industrial System

5 ORing Network Communication

6 Automation Control

7 Optional Peripherals

ORing Highlight Products

Industrial Wireless Access Point

IAP-420/420+
IEEE 802.11 b/g/n Wireless AP with 2x10/100Base-T(X)

IGAP-6620+
Dual RF in IEEE 802.11 a/b/g/n Wireless AP with 2x10/100/1000Base-T(X)

IGAP-820
IEEE 802.11 ac/g/n Wireless AP with 2x10/100/1000Base-T(X)

TGAP-620-M12
EN50155 IEEE 802.11 a/b/g/n Wireless AP with 2x10/100/1000Base-T(X), M12 connector

Industrial Wireless Access Point

IAP-W420+/W422+
Outdoor IEEE 802.11 b/g/n Wireless AP with 2x10/100Base-T(X) PoE P.D., IP-67 Grade

IAP-W520+/522+
Outdoor IEEE 802.11 a/n Wireless AP with 2x10/100Base-T(X) PoE P.D., IP-67 Grade

TGAP-W610+-M12
Outdoor IEEE 802.11 a/b/g/n AP with 1x10/100/1000Base-T(X) PoE P.D., ,M12 connector,IP-67 Grade

TGAP-W6610+-M12
EN50155 Dual RF in IEEE 802.11 a/b/g/n Wireless AP with 2x10/100/1000Base-T(X) PoE P.D., M12 connector,IP-67 Grade

1
IEIMobile Solutions

2
Automation Panel Solutions

3
Healthcare Panel PC Solution

4
Industrial System

5
ORing Network Communication

6
Automation Control

7
Optional Peripherals

ORing Highlight Products

Industrial VPN Router

IGR-20/20+
Industrial VPN Router with 2x10/100/1000Base-T(X)

IAR-142(+)-3G/4G Series
IEEE 802.11 b/g/n 3G/4G Cellular Router with 2x10/100Base-T(X)

TGAR-W1061+-3G/4G-M12
EN50155 IEEE 802.11 a/b/g/n 3G/4G Cellular Router with 1x10/100/1000Base-T(X), PoE P.D.

TGAR-1062+-3GS/4GS-M12
EN50155 IEEE 802.11 a/b/g/n 3G/4G Cellular GPS Router with 2x10/100/1000Base-T(X), M12 connector

Industrial VPN Router

IGAR-1662+-3G/4G
IEEE Dual 802.11 a/b/g/n 3G/4G Cellular Router with 2x10/100/1000Base-T(X)

IGAR-2062+-3G/4G
IEEE 802.11 a/b/g/n Dual 3G/4G Cellular Router with 2x10/100/1000Base-T(X)

IGAR-1062+-3G/4G
IEEE 802.11 a/b/g/n 3G/4G Cellular Router with 2x10/100/1000Base-T(X)

TGAR-2062+-3GS/4GS-M12
EN50155 IEEE 802.11 a/b/g/n Dual 3G/4G Cellular GPS Router with 2x10/100/1000Base-T(X), M12 connector

1
IEIMobile Solutions

2
Automation Panel Solutions

3
Healthcare Panel PC Solution

4
Industrial System

5
ORing Network Communication

6
Automation Control

7
Optional Peripherals

ORing Highlight Products

Industrial Device Server

IDS-312/312+

1xRS-232/422/485 to 2x10/100Base-T(X), 1-port PoE P.D. Device Server

IDS-322/322+

2xRS-232/422/485 to 2x10/100Base-T(X), 1-port PoE P.D. Device Server

IDS-342/342+

4xRS-232/422/485 to 2x10/100Base-T(X), 1-port PoE P.D. Device Server

RDS-3166G

16xRS-232/422/485 to 4x10/100/1000Base-T(X)+2x100/1000Base-X SFP Socket Device Server

Industrial Device Server

IDS-M311

Industrial 1-port Modbus Gateway with 1xRS-232/422/485 and 1x10/100 Base-T(X)

RDS-P3000

IEC 61850-3 Modular Rack-mount Device Server with 4 Serial Slots and 1 Ethernet Slot

Industrial M2M Gateway

IMG-6322GT

Industrial Cellular M2M Gateway with IEEE 802.11 a/b/g/n and 1 Port RS-422/485, 1 port RS-232/422/485 & 2x10/100/1000Base-T(X) Gateway

IMG-W6121+-3G/4G-M12

Industrial Cellular M2M Gateway with IEEE802.11 a/b/g/n, 1G PoE P.D. and 2xRS-232

ORing Highlight Products

Industrial Media Converter

IGMC-111GP/IGPMC-111GP

Industrial Gigabit PoE Ethernet to fiber media converter with 1x10/100/1000Base-T(X) P.S.E. and 1x100/1000Base-X, SFP socket

ISC-1310FB

1-port RS-232/422/485 to Fiber Serial Media Converter

ISC-1112B/ISC-1112B-I

RS-232 to RS-422/485 Serial Media Converter

ORing Management Server

OCS-815

Industrial 6-port Rack-mount multi-functional Management Server

Industrial PoE Ethernet Accessories

INJ-102GT++/INJ-102GT++-24V

Industrial 2-port Gigabit High Power PoE++ Injector

SPL-101GT++

Industrial 1-port Gigabit PoE Splitter, 60Watts Output

PET-102GT++

Industrial 2-port Gigabit High Power PoE++ Extender

TINJ- 101GT-M12 Series

EN50155 Industrial 1-port Gigabit High Power PoE+ Injector

Manufacturing Automation

Manufacturing Automation

Control Center

Internet

Device Server

Cellular VPN Router

Internet

ADSL Modem

Rack-Mount Gigabit Ethernet Switch

Rack-Mount Gigabit Ethernet Switch

Gigabit Ethernet Switch

PoE Panel PC

O-Ring<30ms

Rack-Mount Gigabit Ethernet Switch

Transmit Power and Data

Ethernet Switch

Rack-Mount Gigabit Ethernet Switch

Device Server

Wireless AP

Card Reader

IP Camera

PLC

Temperature Sensor

Device Server

CNC

Legend

▬ DSL	▬ Optic Fiber	▬ CAT5e
▬ Serial	▬ PoE Link	

((•)) Cellular Interface   •)) Wireless LAN

IP Camera

Sensor

PLC

IP-67 Router

Wireless AP

Remote Office Site

Device Server

I/O

Rack-Mount Gigabit Ethernet Switch

Card Reader

O-Ring

Sensor

IP Camera

PLC

Rack-Mount Gigabit Ethernet Switch

IP-67 Router

Device Server

I/O

Control Center

Rack-Mount Gigabit Ethernet Switch

Card Reader

1

IEIMobile Solutions

2

Automation Panel Solutions

3

Healthcare Panel PC Solution

4

Industrial System

5

ORing Network Communication

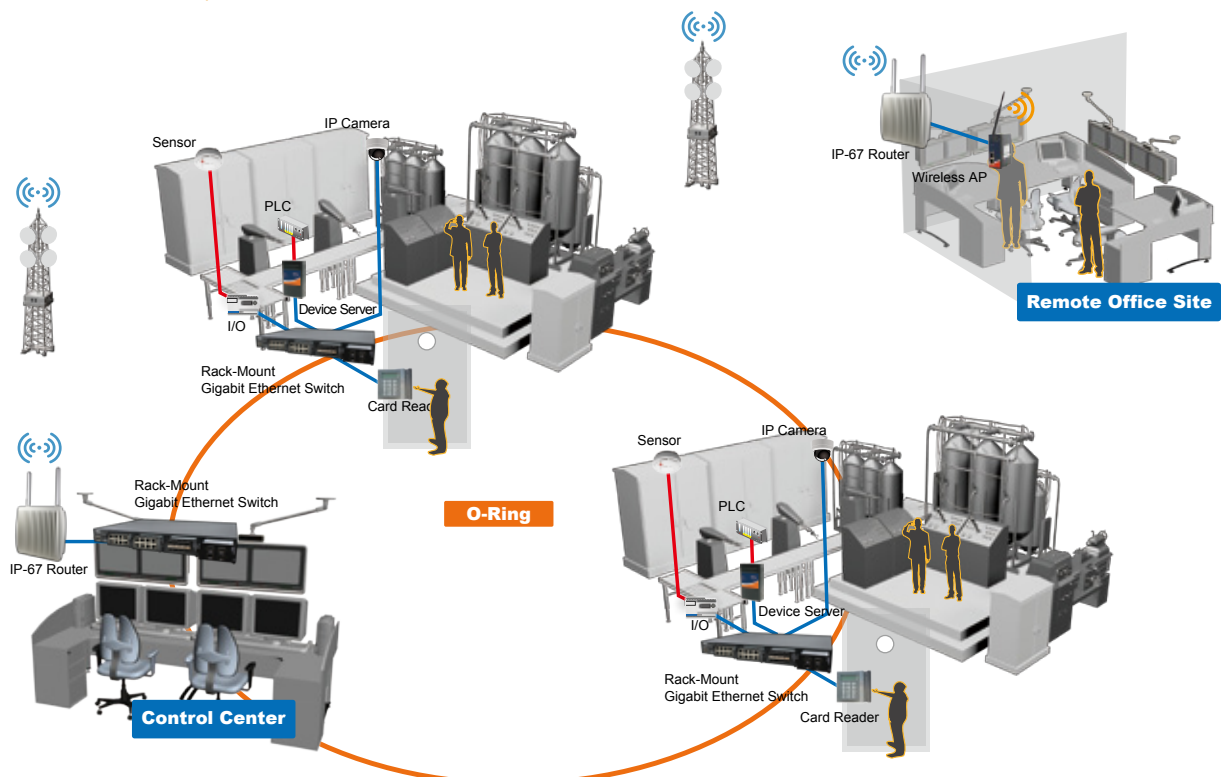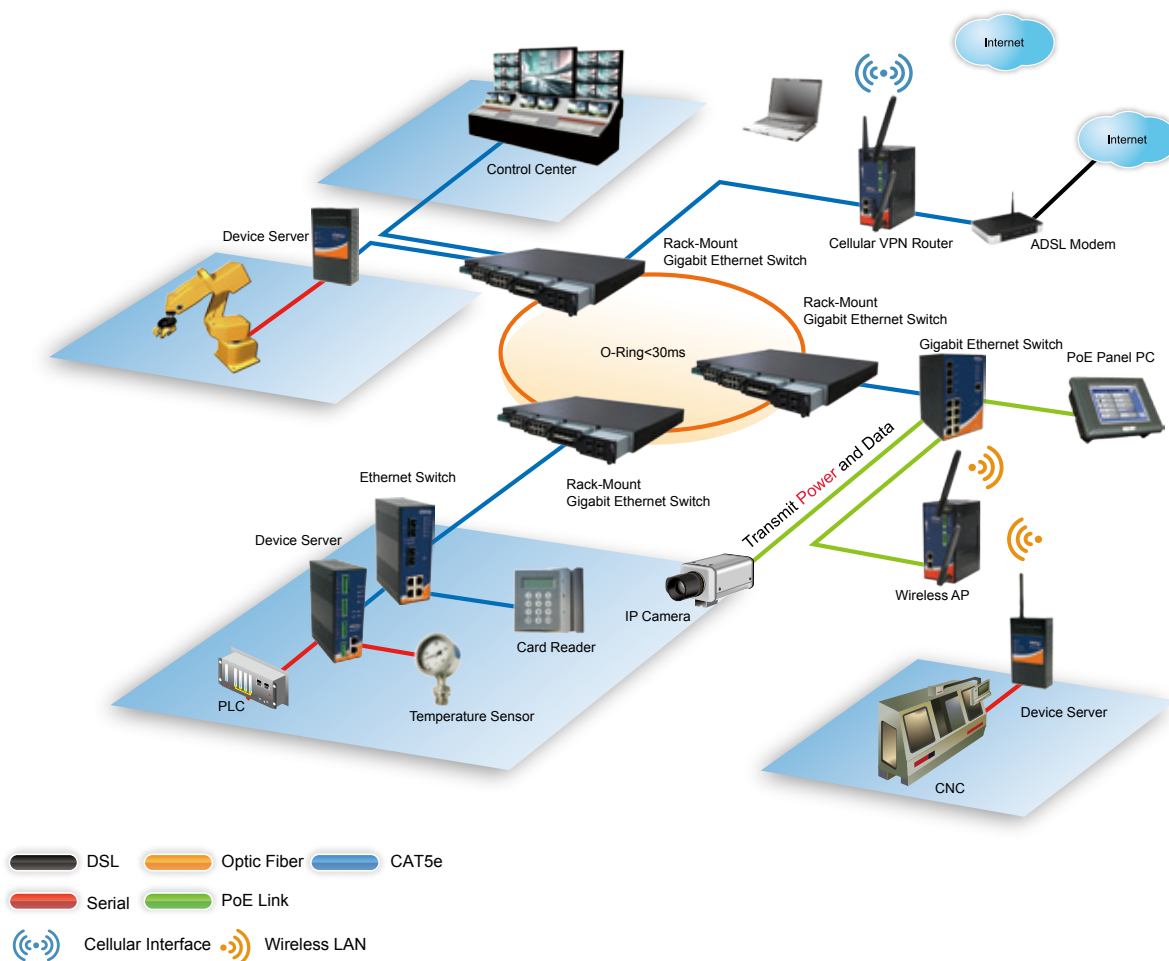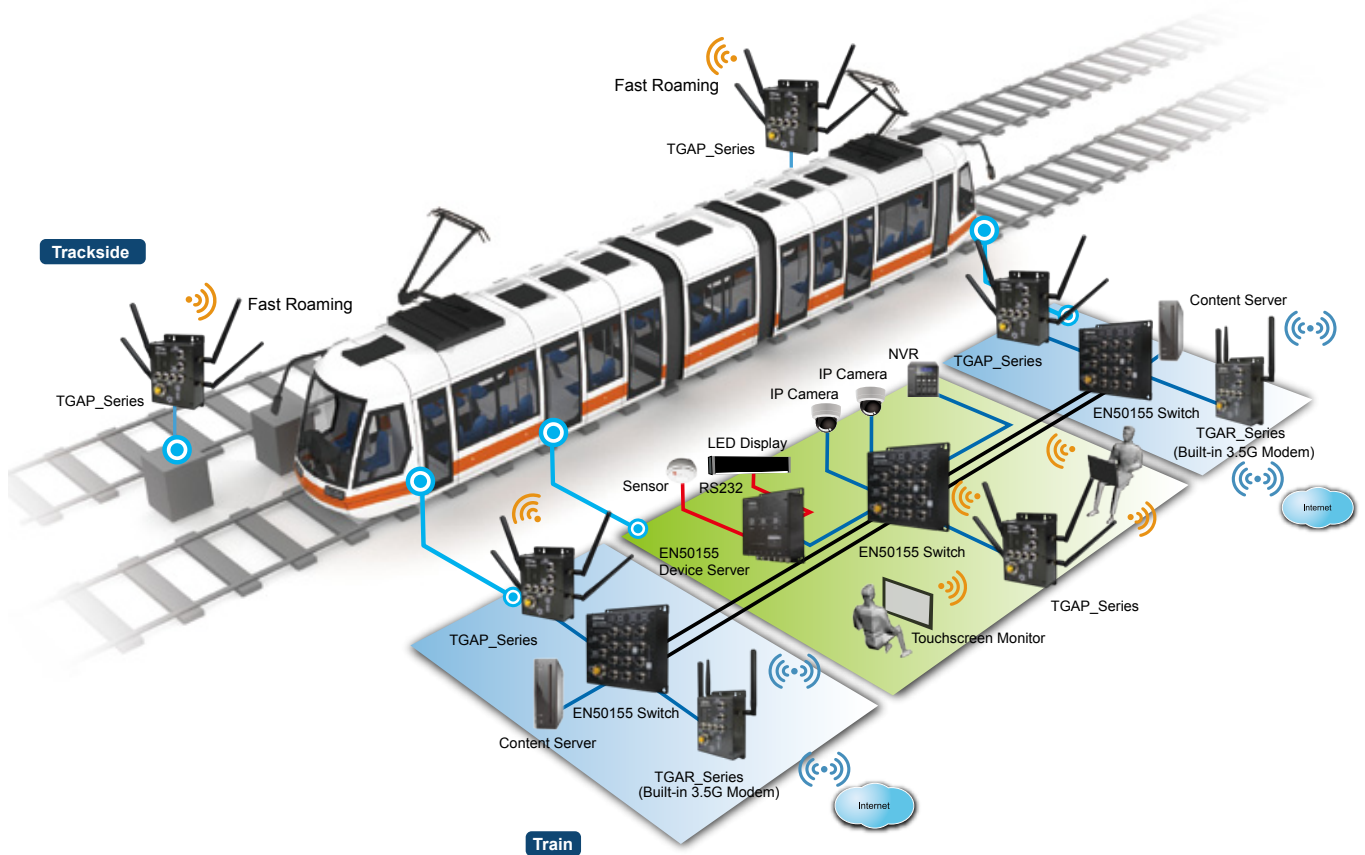6

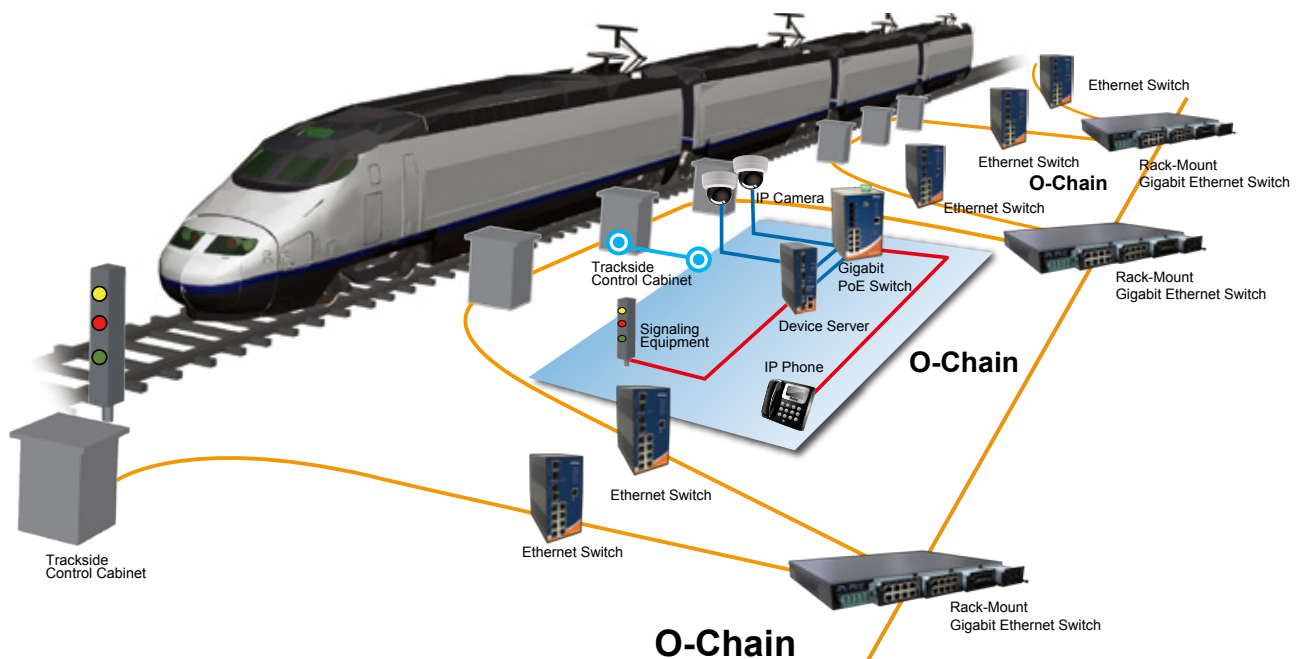Automation Control

7

Optional Peripherals

Railway Application

Railway Application

IRIS Certification
EN50121 EN50155
Transporter Series

Fast Roaming
TGAP_Series
Trackside
Fast Roaming
TGAP_Series
Content Server
NVR
IP Camera
IP Camera
LED Display
Sensor   RS232
EN50155 Device Server
EN50155 Switch
EN50155 Switch
TGAP_Series
TGAR_Series (Built-in 3.5G Modem)
Internet
Touchscreen Monitor
TGAP_Series
TGAP_Series
EN50155 Switch
Content Server
TGAR_Series (Built-in 3.5G Modem)
Internet
Train

Trackside Application

| ▬▬ Port Trunk | ▬▬ Optic Fiber | ▬▬ CAT5e | ▬▬ Serial |

(((•))) Cellular Interface   •)) Wireless LAN

Ethernet Switch
Ethernet Switch
Rack-Mount Gigabit Ethernet Switch
O-Chain
Ethernet Switch
IP Camera
Trackside Control Cabinet
Gigabit PoE Switch
Rack-Mount Gigabit Ethernet Switch
Signaling Equipment
Device Server
IP Phone
O-Chain
Ethernet Switch
Ethernet Switch
Trackside Control Cabinet
Rack-Mount Gigabit Ethernet Switch
O-Chain

---

1 IEIMobile Solutions

2 Automation Panel Solutions

3 Healthcare Panel PC Solution

4 Industrial System

5 ORing Network Communication

6 Automation Control

7 Optional Peripherals