XPTN-9000 Aestra Series Industrial Switch



XPTN-9000-77-2GX4GP-VT



L2+ Management Function
IPv4/IPv6 Static Routing
STP/RSTP/MSTP,ERPS Ring
IEEE 802.1Q, IEEE 802.1X,
ACL, QoS

- 4*100/1000 Base-T,2*1000 Base-X
- 1-4 Ports support IEEE 802.3 af/at
- Dual Power Redundancy
- 6KV Surge Protection
- Operation Temp:-40℃-85℃
- IP Ratings:IP50

XPTN-9000-77-2GX8GP-VT



L2+ Management Function
IPv4/IPv6 Static Routing
STP/RSTP/MSTP,ERPS Ring
IEEE 802.1Q, IEEE 802.1X,
ACL, QoS

- 8*100/1000 Base-T,2*1000 Base-X
- 1-8 Ports support IEEE 802.3 af/at
- Dual Power Redundancy
- 6KV Surge Protection
- Operation Temp:-40℃-85℃
- IP Ratings:IP50

XPTN-9000-77-2GX16GP-VT



L2+ Management Function
IPv4/IPv6 Static Routing
STP/RSTP/MSTP,ERPS Ring
IEEE 802.1Q, IEEE 802.1X,
ACL, QoS

- 16*100/1000 Base-T,2*1000 Base-X
- 1-16 Ports support IEEE 802.3 af/at
- Dual Power Redundancy
- 6KV Surge Protection
- Operation Temp:-40℃-85℃
- IP Ratings:IP50

XPTN-9000-77-4GX8GP-VT



L2+ Management Function
IPv4/IPv6 Static Routing
STP/RSTP/MSTP,ERPS Ring
IEEE 802.1Q, IEEE 802.1X,
ACL, QoS

- 8*100/1000 Base-T,4*1000 Base-X
- 1-8 Ports support IEEE 802.3 af/at
- Dual Power Redundancy
- 6KV Surge Protection
- Operation Temp:-40℃-85℃
- IP Ratings:IP50

XPTN-9000-77-4GX16GP-VT



L2+ Management Function
IPv4/IPv6 Static Routing
STP/RSTP/MSTP,ERPS Ring
IEEE 802.1Q, IEEE 802.1X,
ACL, QoS

- 16*100/1000 Base-T,4*1000 Base-X
- 1-16 Ports support IEEE 802.3 af/at
- Dual Power Redundancy
- 6KV Surge Protection
- Operation Temp:-40℃-85℃
- IP Ratings:IP50

XPTN-9000-77-4GX24GP-VT



L2+ Management Function
IPv4/IPv6 Static Routing
STP/RSTP/MSTP,ERPS Ring
IEEE 802.1Q, IEEE 802.1X,
ACL, QoS

- 24*100/1000 Base-T,4*1000 Base-X
- 1-24 Ports support IEEE 802.3 af/at
- Dual Power Redundancy
- 6KV Surge Protection
- Operation Temp:-40℃-85℃
- IP Ratings:IP50

XPTN-9000-77-4XG16GP-VT



L2+ Management Function
IPv4/IPv6 Static Routing
STP/RSTP/MSTP,ERPS Ring
IEEE 802.1Q, IEEE 802.1X,
ACL, QoS
10G Optical Fiber Uplink

- 16*100/1000 Base-T,4*10G Base-X
- 1-16 Ports support IEEE 802.3 af/at
- Dual Power Redundancy
- 6KV Surge Protection
- Operation Temp:-40℃-85℃
- IP Ratings:IP50

XPTN-9000-77-4XG24GP-VT



L2+ Management Function
IPv4/IPv6 Static Routing
STP/RSTP/MSTP,ERPS Ring
IEEE 802.1Q, IEEE 802.1X,
ACL, QoS
10G Optical Fiber Uplink

- 24*100/1000 Base-T,4*10G Base-X
- 1-24 Ports support IEEE 802.3 af/at
- Dual Power Redundancy
- 6KV Surge Protection
- Operation Temp:-40℃-85℃
- IP Ratings:IP50

XPTN-9000-77-2GX4GP-VBT



L2+ Management Function
IPv4/IPv6 Static Routing
STP/RSTP/MSTP,ERPS Ring
IEEE 802.1Q, IEEE 802.1X,DDoS,
ACL, QoS
Bypass Function

- 4*100/1000 Base-T,2*1000 Base-X
- 1-4 Ports support IEEE 802.3 af/at
- Dual Power Redundancy
- 6KV Surge Protection
- Operation Temp:-40℃-85℃
- IP Ratings:IP50

XPTN-9000-77-2GX8GP-VBT



L2+ Management Function
IPv4/IPv6 Static Routing
STP/RSTP/MSTP,ERPS Ring
IEEE 802.1Q, IEEE 802.1X,DDoS,
ACL, QoS
Bypass Function

- 8*100/1000 Base-T,2*1000 Base-X
- 1-8 Ports support IEEE 802.3 af/at
- Dual Power Redundancy
- 6KV Surge Protection
- Operation Temp:-40℃-85℃
- IP Ratings:IP50

XPTN-9000 Rack-Mount Industrial Switch



Layer 2+

XPTN-9000-87-4GX24GT-HR-V



√ L2+ Managed Function
√ IPv4/IPv6 Static Routing
√ STP/RSTP/MSTP, ERPS Ring
√ IEEE 802.1Q, IEEE 802.1X, ACL,DDos,QoS

· 24*100/1000Base-T,4*1000Base-X
· Dual Power Redundancy
· 6KV Surge Protection
· Operating Temp.-40℃~+75℃
· IP Ratings: IP40

Layer 2+

XPTN-9000-87-4XG48GT-HR-V



√ L2+ Managed Function
√ IPv4/IPv6 Static Routing
√ STP/RSTP/MSTP, ERPS Ring
√ IEEE 802.1Q, IEEE 802.1X, ACL,DDos,QoS
√ 10Gb Optical Fiber Uplink

· 48*10/100/1000Base-T,4*10GBase-X
· Dual Power Redundancy
· 6KV Surge Protection
· Operating Temp.-40℃~+75℃
· IP Ratings: IP40

Layer 2+

XPTN-9000-87-4XG16GX8GC-HR-V



√ L2+ Managed Function
√ IPv4/IPv6 Static Routing
√ STP/RSTP/MSTP, ERPS Ring
√ IEEE 802.1Q, IEEE 802.1X, ACL,DDos,QoS
√ 10Gb Optical Fiber Uplink

· 4*10GBase-X，16*1000Base-X, 8*1000M Combo
· Dual Power Redundancy
· 6KV Surge Protection
· Operating Temp.-40℃~+75℃
· IP Ratings: IP40

Layer 3

XPTN-9000-88-4XG48GT-HR-V



√ L3 Managed Function
√ OSPFv2/RIP/IS-IS/GCP4 Dynamic Routing
√ STP/RSTP/MSTP, ERPS Ring
√ IEEE 802.1Q, IEEE 802.1X, ACL, QoS
√ 10Gb Optical Fiber Uplink

· 48*100/1000Base-T,4*10GBase-X
· Dual Power Redundancy
· 6KV Surge Protection
· Operating Temp.-40℃~+75℃
· IP Ratings: IP40

Layer 2+

XPTN-9000-87-4XG8GC16GT-HR-V



√ L2+ Managed Function
√ IPv4/IPv6 Static Routing
√ STP/RSTP/MSTP, ERPS Ring
√ IEEE 802.1Q, IEEE 802.1X, ACL,DDos,QoS
√ 10Gb Optical Fiber Uplink

· 16*100/1000Base-T,4*10GBase-X, 8*1000M Combo
· Dual Power Redundancy
· 6KV Surge Protection
· Operating Temp.-40℃~+75℃
· IP Ratings: IP40

Layer 2+

XPTN-9000-87-4XG24GX-HR-V



√ L2+ Managed Function
√ IPv4/IPv6 Static Routing
√ STP/RSTP/MSTP, ERPS Ring
√ IEEE 802.1Q, IEEE 802.1X, ACL,DDos,QoS
√ 10Gb Optical Fiber Uplink

· 4*10GBase-X, 24*1000Base-X
· Dual Power Redundancy
· 6KV Surge Protection
· Operating Temp.-40℃~+75℃
· IP Ratings: IP40

Layer 3

XPTN-9000-88-4XG8GC16GT-HR-V



√ L3 Managed Function
√ OSPFv2/RIP/IS-IS/GCP4 Dynamic Routing
√ STP/RSTP/MSTP, ERPS Ring
√ IEEE 802.1Q, IEEE 802.1X, ACL, QoS
√ 10Gb Optical Fiber Uplink

· 16*100/1000Base-T,4*10GBase-X, 8*1000M Combo
· Dual Power Redundancy
· 6KV Surge Protection
· Operating Temp.-40℃~+75℃
· IP Ratings: IP40

Layer 3

XPTN-9000-88-4XG16GX8GC-HR-V



√ L3 Managed Function
√ OSPFv2/RIP/IS-IS/GCP4 Dynamic Routing
√ STP/RSTP/MSTP, ERPS Ring
√ IEEE 802.1Q, IEEE 802.1X, ACL, QoS
√ 10Gb Optical Fiber Uplink

· 4*10GBase-X，16*1000Base-X, 8*1000M Combo
· Dual Power Redundancy
· 6KV Surge Protection
· Operating Temp.-40℃~+75℃
· IP Ratings: IP40

XPTN-9000 Managed Industrial Switch-DIN Rail



Layer 2+ **XPTN-9000-77-2GX4GP-M**



√ L2+ Managed Function
√ IPv4/IPv6 Static Routing
√ STP/RSTP/MSTP, ERPS Ring
√ DDoS,ACL, QoS

- 4*100/1000Base-T,2*1000Base-X 1-4 Ports support IEEE 802.3 af/at
- Dual Power Redundancy
- 4KV Surge Protection
- Operating Temp.-40℃~+85℃
- IP Ratings: IP40

Layer 2+ **XPTN-9000-77-2GX8GP-M**



√ L2+ Managed Function
√ IPv4/IPv6 Static Routing
√ STP/RSTP/MSTP, ERPS Ring
√ DDoS,ACL, QoS

- 8*100/1000Base-T,2*1000Base-X 1-8 Ports support IEEE 802.3 af/at
- Dual Power Redundancy
- 4KV Surge Protection
- Operating Temp.-40℃~+85℃
- IP Ratings: IP40

Layer 2+ **XPTN-9000-77-4GX8GT-M**



√ L2+ Managed Function
√ IPv4/IPv6 Static Routing
√ STP/RSTP/MSTP, ERPS Ring
√ DDoS,ACL, QoS

- 8*100/1000Base-T,4*1000Base-X
- Dual Power Redundancy
- 4KV Surge Protection
- Operating Temp.-40℃~+85℃
- IP Ratings: IP40

Layer 3 **XPTN-9000-78-4GX8GP-M**



√ L3 Managed Function
√ RIP/OSPF Dynamic Routing
√ STP/RSTP/MSTP, ERPS Ring
√ DDoS,ACL, QoS

- 8*100/1000Base-T,4*1000Base-X 1-8 Ports support IEEE 802.3 af/at
- Dual Power Redundancy
- 6KV Surge Protection
- Operating Temp.-40℃~+85℃
- IP Ratings: IP40

Layer 3 **XPTN-9000-78-8GX8GT-M**



√ L3 Managed Function
√ RIP/OSPF Dynamic Routing
√ STP/RSTP/MSTP, ERPS Ring
√ DDoS,ACL, QoS

- 8*100/1000Base-T,8*1000Base-X
- Dual Power Redundancy
- 6KV Surge Protection
- Operating Temp.-40℃~+85℃
- IP Ratings: IP40

Layer 3 **XPTN-9000-78-8GX8GP-M**



√ L3 Managed Function
√ RIP/OSPF Dynamic Routing
√ STP/RSTP/MSTP, ERPS Ring
√ DDoS,ACL, QoS

- 8*100/1000Base-T,8*1000Base-X 1-8 Ports support IEEE 802.3 af/at
- Dual Power Redundancy
- 6KV Surge Protection
- Operating Temp.-40℃~+85℃
- IP Ratings: IP40

Layer 3 **XPTN-9000-78-4XG4GX8GT-M**



√ L3 Managed Function
√ RIP/OSPF Dynamic Routing
√ STP/RSTP/MSTP, ERPS Ring
√ DDoS,ACL, QoS
√ 10Gb Optical Fiber Uplink

- 8*100/1000Base-T,4*10GBase-X. 4*1000Base-X
- Dual Power Redundancy
- 6KV Surge Protection
- Operating Temp.-40℃~+85℃
- IP Ratings: IP40

Layer 3 **XPTN-9000-78-4XG4GX8GP-M**



√ L3 Managed Function
√ RIP/OSPF Dynamic Routing
√ STP/RSTP/MSTP, ERPS Ring
√ DDoS,ACL, QoS
√ 10Gb Optical Fiber Uplink

- 8*100/1000Base-T,4*10GBase-X 4*1000Base-X, 1-8 Ports support IEEE 802.3 af/at
- Dual Power Redundancy
- 6KV Surge Protection
- Operating Temp.-40℃~+85℃
- IP Ratings: IP40

XPTN-9000-65 Series Unmanaged Industrial Switch



Smart DIP **XPTN-9000-65-2GX4GP**



Smart DIP switches:
√ PoE Watchdog
√ VLAN Isolation
√ Port Isolation
√ VIP Power Supply & Qos

- 4*100/1000Base-T,2*1000Base-X 1-4 Ports support IEEE 802.3 af/at
- Dual Power Redundancy
- 6KV Surge Protection
- Operating Temp.-40℃~+85℃
- IP Ratings: IP40

Smart DIP **XPTN-9000-65-2GX8GP**



Smart DIP switches:
√ PoE Watchdog
√ VLAN Isolation
√ Port Isolation
√ VIP Power Supply & Qos

- 8*100/1000Base-T,2*1000Base-X 1-8 Ports support IEEE 802.3 af/at
- Dual Power Redundancy
- 6KV Surge Protection
- Operating Temp.-40℃~+85℃
- IP Ratings: IP40

Smart DIP **XPTN-9000-65-8GT**



Smart DIP switches:
√ Port Isolation
√ VLAN Isolation
√ Qos
√ Flow Control

- 8*100/1000Base-T
- Dual Power Redundancy
- 6KV Surge Protection
- Operating Temp.-40℃~+85℃
- IP Ratings: IP40

Smart DIP **XPTN-9000-65-2GX8GT**



Smart DIP switches:
√ Port Isolation
√ VLAN Isolation
√ Qos
√ Flow Control

- 8*100/1000Base-T,2*1000Base-X
- Dual Power Redundancy
- 6KV Surge Protection
- Operating Temp.-40℃~+85℃
- IP Ratings: IP40

Compact **XPTN-9000-65-2GX16GT**



√ Plug and Play
√ High Port Density

- 16*100/1000Base-T,2*1000Base-X
- Dual Power Redundancy
- 6KV Surge Protection
- Operating Temp.-40℃~+85℃
- IP Ratings: IP40

Compact **XPTN-9000-65-8GX16GT**



√ Plug and Play
√ High Port Density

- 16*100/1000Base-T,8*1000Base-X
- Dual Power Redundancy
- 6KV Surge Protection
- Operating Temp.-40℃~+85℃
- IP Ratings: IP40

Compact **XPTN-9000-65-4GX24GT**



√ Plug and Play
√ High Port Density

- 24*100/1000Base-T,4*1000Base-X
- Dual Power Redundancy
- 6KV Surge Protection
- Operating Temp.-40℃~+85℃
- IP Ratings: IP40

Compact **XPTN-9000-65-4GX24GT-HR**



√ Plug and Play
√ High Port Density
√ 802.3af/at(Only DC Power In)

- 24*100/1000Base-T,4*1000Base-X
- Dual Power Redundancy
- 4KV Surge Protection
- Operating Temp.-40℃~+85℃
- IP Ratings: IP40

XPTN-9000-45 Series Unmanaged Industrial Switch



Smart DIP **XPTN-9000-45-1GX4GP**



Smart DIP switches:
√ PoE Watchdog
√ 250 Meters Tansmission
√ Port Isolation
√ Flow Control

- 4*100/1000Base-T, 1*1000Base-X
  1-4 Ports support IEEE 802.3 af/at
- Dual Power Redundancy
- 4KV Surge Protection
- Operating Temp.-40℃~+75℃
- IP Ratings: IP40

Smart DIP **XPTN-9000-45-8TP**



Smart DIP switches:
√ PoE Watchdog
√ 250 Meters Transmission
√ Port Isolation
√ Flow Control

- 8*100Base-T
  1-8 Ports support IEEE 802.3 af/at
- Dual Power Redundancy
- 4KV Surge Protection
- Operating Temp.-40℃~+75℃
- IP Ratings: IP40

Smart DIP **XPTN-9000-45-8GP**



Smart DIP switches:
√ PoE Watchdog
√ 250 Meters Tansmission
√ Port Isolation
√ Flow Control

- 8*100/1000Base-T
  1-8 Ports support IEEE 802.3 af/at
- Dual Power Redundancy
- 4KV Surge Protection
- Operating Temp.-40℃~+75℃
- IP Ratings: IP40

Mini **XPTN-9000-45-8TXm**



√ Plug and Play
√ Mini Size 95*91*41mm

- 8*100Base-T
- Dual Power Redundancy
- 4KV Surge Protection
- Operating Temp.-40℃~+75℃
- IP Ratings: IP40

Mini **XPTN-9000-45-5TXm**



√ Plug and Play
√ Mini Size 95*91*31mm

- 5*100Base-T
- Dual Power Redundancy
- 4KV Surge Protection
- Operating Temp.-40℃~+75℃
- IP Ratings: IP40

PoE+ **XPTN-9000-45-2GX8GP**



√ Plug and Play

- 8*100/1000Base-T,2*1000Base-X
  1-8 Ports support IEEE 802.3 af/at
- Dual Power Redundancy
- 4KV Surge Protection
- Operating Temp.-40℃~+75℃
- IP Ratings: IP40

Compact **XPTN-9000-45-16GT**



√ Plug and Play

- 16*100/1000Base-T
- Dual Power Redundancy
- 4KV Surge Protection
- Operating Temp.-40℃~+75℃
- IP Ratings: IP40

PoE++ **XPTN-9000-45-2GX1GT8TP2B**



Support 90W PoE++
Smart DIP switches:
√ PoE Watchdog
√ 250 Meters Tansmission
√ Port Isolation
√ Storm Control

- 8*100Base-T,1*100/1000 Base-T,
  2*1000Base-X
  1-2 Ports support IEEE 802.3 bt
  1-8 Ports support IEEE 802.3 af/at
- Dual Power Redundancy
- 4KV Surge Protection
- Operating Temp.-40℃~+75℃
- IP Ratings: IP40

XPTN-9000-Bypass Industrial Switch

High-Reliability Intelligent Highway Network Solution

In intelligent highway network systems, the stability of video surveillance, emergency telephones, and traffic information systems is crucial for ensuring road safety. In such systems, network interruptions are almost zero-tolerance. Cameras need to provide road monitoring, rapid license plate recognition, and capture, transmitting data to remote data centers. These actions rely on network equipment with high data transmission performance to handle high-density video and image data. Emergency telephones in tunnels must ensure 24/7 uninterrupted operation to respond to unexpected incidents at any time.

The Scodeno XPTN-9000-Bypass industrial Ethernet switches adopt a dual-redundant network architecture. With exceptional industrial-grade high reliability, they ensure 24/7 operation of a large number of monitoring cameras, traffic signals, emergency telephones, and other devices on highways, enhancing the overall efficiency and reliability of highway safety management.

Solution Advantages:

1. Dual-Redundant Network Architecture

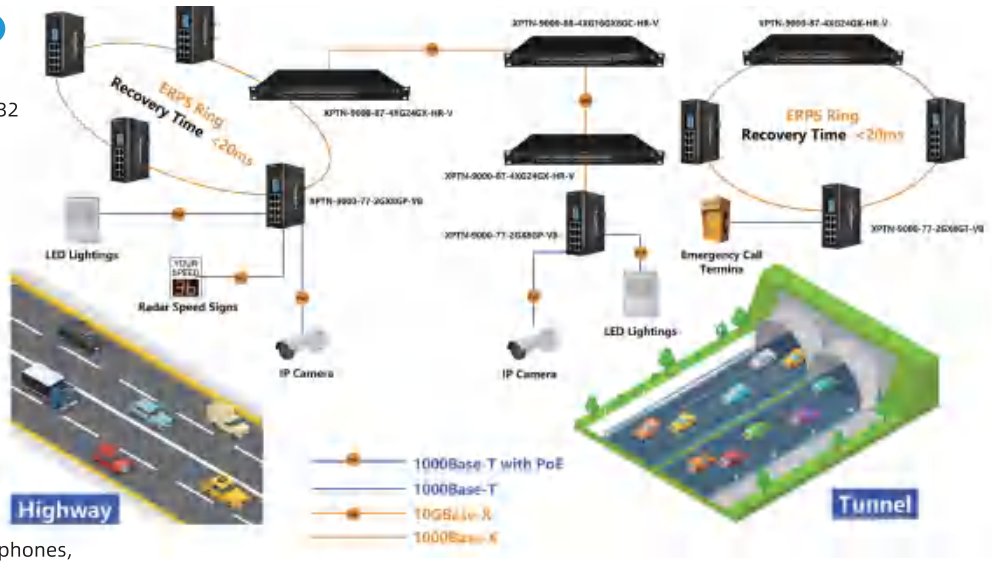
Integrated hardware-level Bypass functionality (maintaining physical link continuity during device failure) and G.8032 standard ERPS ring network protocol (self-healing time <20ms), minimizing the risk of video return transmission service interruptions.

2. Industrial-Grade Reliable Design

Passed IEC 61000-4 series EMC tests, supports wide-temperature operation from -40°C to 85°C, and IP40 protection rating, adapting to extreme environments such as open highways and tunnels.

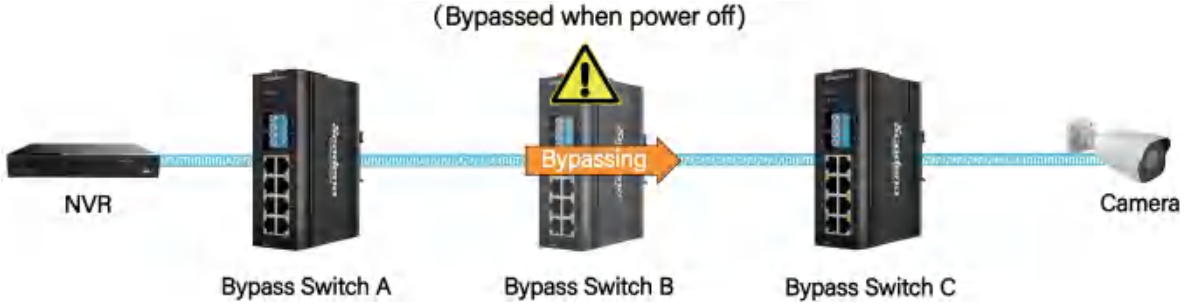
3. Efficient Service Transmission

Supports IEEE 802.1Q VLAN and QoS, optimizing traffic prioritization to ensure the transmission of critical services such as surveillance video and emergency telephones, meeting the low-latency requirements of highway.



Uninterrupted Data Transmission on Physical Links

When the power supply is disconnected due to a failure, the Scodeno Bypass switch immediately activates bypass mode, ensuring that data transmission on the physical link is not interrupted by the failure.



Bypass

XPTN-9000-77-2GX8GT-VB



√ L2+ Management Function
√ IPv4/IPv6 Static Routing
√ STP/RSTP/MSTP, ERPS Ring
√ IEEE 802.1Q, DDoS, ACL, QoS
√ Bypass Function

· 8*100/1000Base-T,2*1000Base-X
· Dual Power Redundancy
· 6KV Surge Protection
· Operating Temp.-40℃~+85℃
· IP Ratings: IP40

Bypass

XPTN-9000-77-2GX8GP-VB



√ L2+ Management Function
√ IPv4/IPv6 Static Routing
√ STP/RSTP/MSTP, ERPS Ring
√ IEEE 802.1Q, DDoS, ACL, QoS
√ Bypass Function

· 8*100/1000Base-T,2*1000Base-X, 1-8 Ports support IEEE 802.3 af/at
· Dual Power Redundancy
· 6KV Surge Protection
· Operating Temp.-40℃~+85℃
· IP Ratings: IP40

Bypass

XPTN-9000-63-4FX



√ Optical Fiber Bypass Device
√ Bypass Function

· Working Wavelength:1310/1490/1550/1625/1650nm
· 6KV Surge Protection
· Operating Temp.-40℃~+85℃
· IP Ratings: IP40

XPTN-9000-IP67 Industrial Switch

High-Reliability Smart Port Network Solution

The operation of container loading and unloading in a seaport is dynamic and complex, with extremely high demands on the speed and accuracy of data collection. The harsh environmental conditions of high temperatures, humidity, and corrosion in the seaport are the primary challenges. Additionally, the dock layout contains numerous variable frequency electrical equipment and high-density wireless devices, creating a significant electromagnetic environment, which requires the equipment to have strong electromagnetic interference (EMI) resistance. Furthermore, the heavy vibrations caused by cranes during loading and unloading can affect the physical connectivity and reliability of equipment. To address extreme environmental factors such as high temperatures, humidity, corrosion, and high electromagnetic interference in the seaport, network equipment not only needs excellent data transmission performance but also must possess high protection capabilities and reliability to ensure the stability of critical communication and equipment operation.

Scodeno XPTN-9000-IP67 industrial Ethernet switches are specifically designed for harsh seaport environments, offering highly reliable hardware-level redundant network performance and enhanced protection capabilities, providing a stable foundation for smart port networks.

Solution Advantages:

1. Designed for Harsh Environments

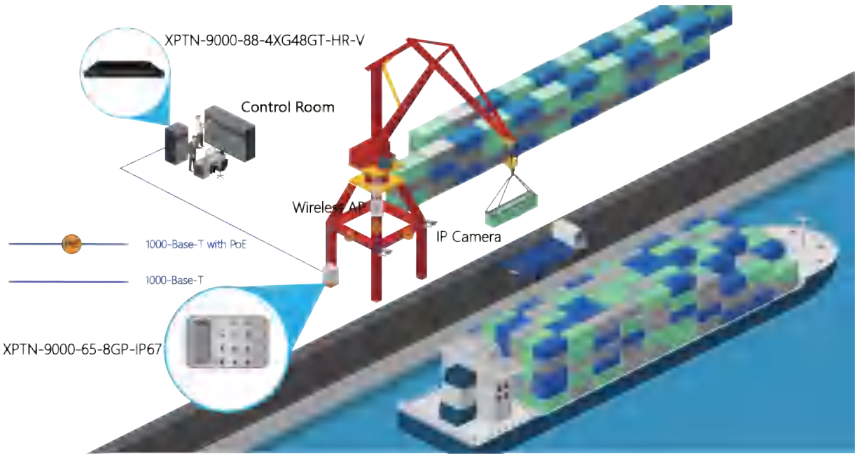
Tested for electromagnetic compatibility (EMC) according to IEC-61000-4 series. IP67 protection rating, with a wide operating temperature range from -40℃ to 85℃, and high-reliability acid-resistant coating to ensure stable operation in high-temperature, high-humidity, corrosive, and high-electromagnetic interference seaport environments.

2. Redundant Network Capability

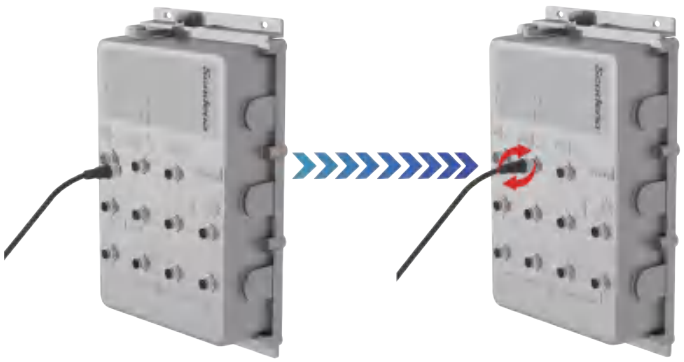
Integrated hardware-level Bypass functionality reduces the risk of data disruption on physical links.

3. Reliable Physical Interfaces

Utilizes robust M12 Ethernet interfaces, minimizing the risk of network interruptions due to strong vibrations.



Robust M12 Ethernet Interface Design



IP67

XPTN-9000-65-8GT-IP67



√ IP67 Protection
√ Bypass Function
√ Plug and Play

· 8*100/1000Base-T M12 Ports
· M16 Power Input
· 6KV Surge Protection
. Operating Temp.-40℃~+85℃
· IP Ratings: IP67

IP67

XPTN-9000-65-8GP-IP67



√ IP67 Protection
√ Bypass Function
√ Plug and Play

· 8*100/1000Base-T M12 Ports
· 3-8 Ports support IEEE 802.3 af/at
· M16 Power Input
· 6KV Surge Protection
· Operating Temp.-40℃~+85℃
· IP Ratings: IP67

Mobile/WeChat/WhatsApp: +8618675506298
Email: zengjin@scodeno.com | Website: www.scodeno.com
ADD: F2-A6, Silcon Valley Power Industrial Area, DaFu, GuanLan Town, LongHua District, ShenZhen, China.518110