



**EN50155 IP67**  
**Industrial Ethernet Switch**

The ITP series Ethernet switches are EN50155 certified and are especially designed for industrial applications such as rolling stock, railways, buses, and subways. With M12 connectors, ITP Ethernet switches are vibration and shock resistant. They can provide stable and reliable operation for mission-critical applications. To satisfy the needs of industrial and harsh environments, ITP Ethernet switches adopt an IP-67 rated housing which can effectively protect against dust, oil and water. In addition, ITP Ethernet switches also provide flexible Gigabit Ethernet solutions to meet various demands from different industrial applications.

**Employing reliable M12 connector**

- Anti vibration, shock
- EN50155, IEC-61373 certification
- Suitable for applications such as rolling stock, railway, buses, subways, vibration environment, and automation.

**Anti-vibration**



On Board Train



Public Transportation



Vibration Environment



## IP67 waterproof

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

### IP67 Waterproof Design



Water utility



Dusty environment



High humidity environment

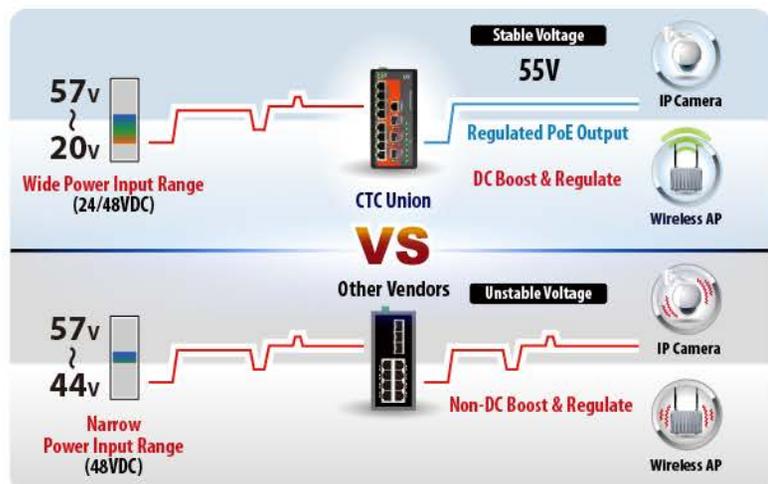


Chemical factory

## Power over Ethernet

PoE (Power over Ethernet) features that comply with IEEE802.3at/af standard allow Ethernet cables to supply power to remote devices and at the same time transmit data normally. PoE is especially useful for environments where power source is not easily reached. With PoE capability, PSE (power sourcing equipment) can directly connect and feed power to powered device, such as IP phones, IP surveillance cameras, wireless Access Points and digital signage without requiring additional power cords. This feature not only helps users solve physical connection problems or inconvenience but also reduces operational costs by centrally and remotely managing output power and weekly scheduling to connected PD devices.

- Regulated PoE output voltage (55VDC) to stabilize PoE device
- Guarantee delivery PoE power distance to 100meter
- Provide weekly ON/OFF scheduling
- PoE PD failure auto checking, and auto reset when PD fail
- Reduce operational cost



## Resilient Bypass

EN50155 compliant products offer two copper interfaces with auto bypass function in the event of sudden power loss, particularly in daisy chain or linear topology networks. When power failure occurs in one of the switches on a train, the bypass relay function can activate, automatically bypassing the internal circuits and maintaining link between neighboring equipment. With this function, secure data transmission from terminals to backbone and higher network availability can be guaranteed.

