



## Overview

The **VILINK IE2404** is a Gigabit POE Layer 2 Managed Industrial Optical Ethernet Switch. It provides four 1000Mbps SFP ports with and 24x10/100Mbps POE electrical ports. The IE2404 is designed to meet the various industrial application needs and provide a wide range of industrial Ethernet network communication solutions, including linking multiple remote traffic intersections to the Traffic Operation Center. The IE2404 also provides up to 8/24 PSE and Fast Ethernet downlinks access interfaces up to 15 watts per port. It can offer power source for multiple power devices such as wireless access points, IP phones and IP cameras. In addition, the IE2404 features powerful Web-based, CLI management capabilities, wide input range dual power supply and its support for DIN rail and panel mounting for installation in the industrial environment. "Fast Ring Protection" (FRP) is a proprietary technology that designed specifically for industrial applications, to provide a fast Ethernet ring protection and recovery within 20ms. From the management console, users can choose any port (normal Ethernet port or trunk port) to form an Ethernet ring for faster recovery and wider bandwidth. The 2 GB ports Base-SFP (Small-Form Factor Pluggable) interfaces are designed for extending from 550 meters (Multi-mode fiber) up to above 20/40/100 kilometers (Single-mode fiber) which just provides a high-performance edge device for FTTx solutions.

Applications include ITS Intelligent Traffic Control, Homeland Security, Metro & Railroad, Oil & Gas Monitoring, Utility Management, Premise Networks, Military Hardened applications or anything requiring high quality Data Transmission performance.

## Features

- 4 x GB SFP Fiber Ports
- 24 x 10/100M Ethernet POE Ports
- Provide up to 15 watts per port for remote IP devices
- Fast Ring Protection (FRP), Spanning Tree Protocol (STP) and Rapid Spanning Tree Protocol (RSTP)
- Support 802.1Q 4K VLAN, port based, protocol based VLAN, Generic Attribute Registration Protocol (GARP), GARP VLAN Registration Protocol (GVRP)
- Static and Dynamic port aggregation
- Port rate limit, broadcast storm control, port mirroring, rich Quality of Service (QoS) features
- Blackhole MAC address filtering, static and dynamic MAC address management
- NEMA Temperature Compliance

## Applications

- ITS Traffic Applications
- SCADA Networks
- Metro Networks
- Gas & Oil Fields Monitoring Applications
- Railroad Networks
- Military Applications
- Data Acquisition Applications

## Ordering Information

Model	Descriptions
IE2404	Gigabit POE Layer 2 Managed Industrial Optical Ethernet Switch, 4xGB SFP, 24x10/100M POE, 90~240 VAC *** Please refer to Optical SFP Models for ordering GB SFP***

## ITS Equipment Series

Model IE2404

### System:

Network Standard	IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX IEEE 802.3ab Gigabit 1000-T IEEE 802.3z Gigabit SX / LX IEEE 802.3x Flow Control IEEE 802.3ad Port trunk w/ LACP IEEE 802.1w Rapid spanning tree IEEE 802.1p Class of service IEEE 802.1Q VLAN Tagging IEEE 802.1x Port Authentication
Network Management	Web-based, CLI
Protocols	IGMP1/v2, GVRP, SNMPv1/v2c/v3, DHCP, TFTP, SMTP, RMON, HTTP, HTTPS, Telnet, Syslog, SSH, SNMP inform, SNMP Server/Client
MIB	MIB-II, Ethernet-Like MIB, P-BRIDGE MIB, Q-BRIDGE MIB, Bridge MIB, RSTP MIB, RMON MIB Group 1,2,3,9
Switching Architecture	Non-Blocking Store-and-Forward
Priority Queues	4
Address Table	8K MAC w/ Auto Learning
Packet Buffer size	2 Mbit
VLAN ID Range	VID 1 to 4094 @ Max 256 VLANs
Bandwidth Management	Static and Dynamic Ports Aggregation
Protection/ Redundant	Fast Ring Protection Recover <20ms

### Physical:

Dimension	17.5" x 12" x 1.75"
Power	90~240 VAC@0.5Amp

### Fiber Interface:

GB Ports	4 SFP Slots
Data Rate	1000 Mbps
Connector	LC
Distances	40KM@1310SM, 100KM@1550SM

### TX Interface:

Ports	24 RJ45 POE
Data Rate	10/100 Mbps
TX Port	Auto-MDI/MDIX
Transmission Mode	Half/Full Duplex
POE Power	Up to 15 Watts per Port

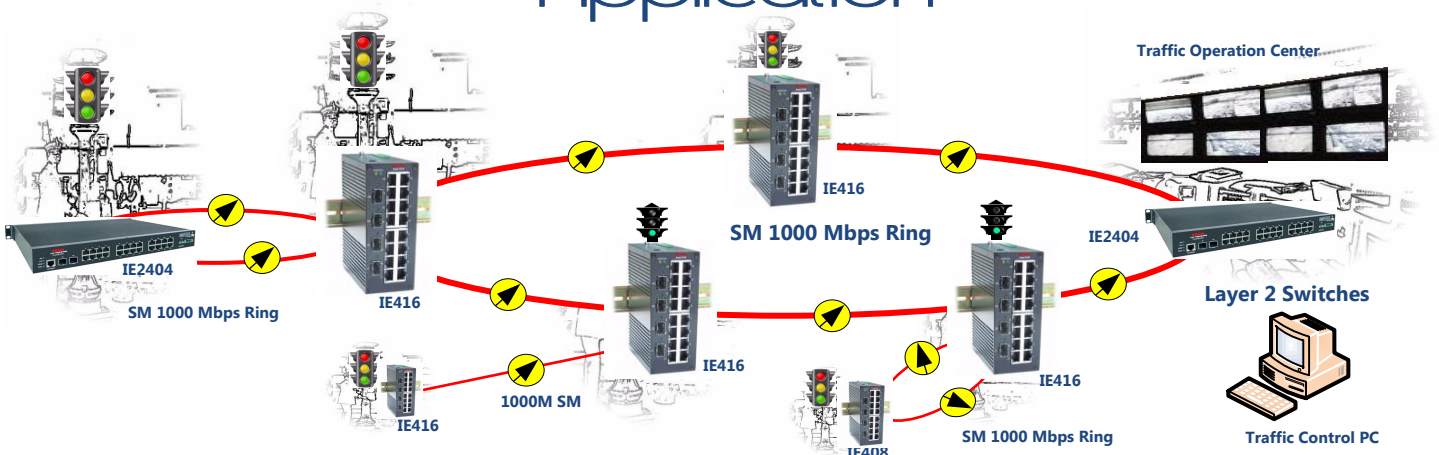
### Network Management:

Interface	Web Browser, CLI
Port Configuration	Port enable, Auto-Negotiation, Full and Half Duplex mode, Flow Control Enable, Bandwidth Control
VLAN	Port-Based / 802.1Q Tagged Based Generic Attribute Registration
Link Aggregation	Supports IEEE 802.3ad LACP
Data Traffic Control	Port rate limit, broadcast control, mirroring and QoS
Console Port	RS-232 – RJ45 Connector

### Environment:

Operating	-34 <sup>0</sup> C to +74 <sup>0</sup> C
Storage	-40 <sup>0</sup> C to +85 <sup>0</sup> C
Humidity	98% Non-Condensing

## Application



Typical IE2404 Application