



## Overview

The **VILINK IE209** is a Gigabit Layer 2 Managed Industrial Optical Ethernet Switch with six 10/100M Ports and three 1000Mbps Fiber Optic SFP Ports for Uplink and Downlink communication and **extension link**. The IE209 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. It is a very cost effective solution for connecting surveillance cameras and wireless communication devices. The IE209 also 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.

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

## Features

- 3 x 1000M SX SFP Ports
- 6 x 10/100M TX Ethernet Ports
- 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
- Dual power input for high reliability
- DIN rail or panel mount

## Applications

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

## Ordering Information

Model	Descriptions
IE209	Managed Layer 2 Gigabit Industrial Ethernet Switch, 3x1000M SFP LC, SM 1310nm, 40 Km, 6x10/100M-TX RJ45 , Dual 48 VDC *** Please Consult Factory for Additional Model Numbers***

## ITS Equipment Series

Model IE209

<b>System:</b>	
Network Standard	IEEE 802.3 at PoE IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX 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
<b>Physical:</b>	
Dimension	5.5" x 4.5" x 2.5"
Power	Dual Input 36~72VDC@1.8Amp

<b>Fiber Interface:</b>	
SX Ports	3 Ports
Data Rate	1000 Mbps
Connector	SFP (LC)
Distances	20KM@1310SM, 40KM@1310SM, 100KM@1550SM

<b>TX Interface:</b>	
Ports	6 RJ45
Data Rate	10/100 Mbps
TX Port	Auto-MDI/MDIX
Transmission Mode	Half/Full Duplex

<b>Network Management:</b>	
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

<b>Environment:</b>	
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

