

4 GB Ports Gigabit Advanced Managed Layer 2 GE Industrial Ethernet Switch w/ 4GB-SFP, and 16x10/100/M-TX

Model IE416



Overview

The VILINK IE416 is a Advanced Managed Layer 2 GE Industrial Optical Ethernet Switch. It has four 1000Mbps fiber optic ports with optional SFP modules and sixteen 10/100Mbps electrical ports. The IE416 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 IE416 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. The 4 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 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

- 4 x GB SFP Fiber Ports
- 16 x 10/100M 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 l	hformation
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Model	l Descriptions
IE416	Managed Layer 2 GE Industrial Optical Ethernet Switch, 4xGB SFP, 16x10/100M, Dual +12VDC *** Please refer to Optical SFP Models for ordering GB SFP***



Technical

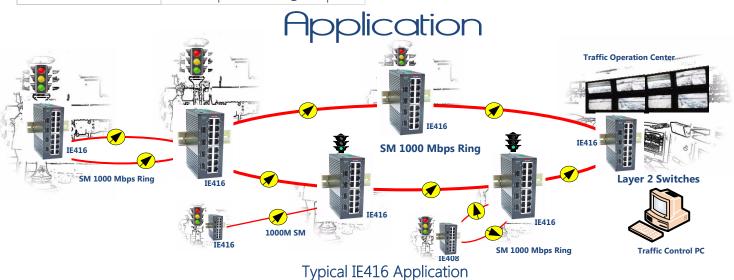
Model IE416

Specifications

ITS Equipment Series

System:	
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	
Web-based, CLI	
IGMP1/v2, GVRP, SNMPv1/v2c/v3, DHCP, TFTP, SMTP, RMON, HTTP, HTTPS, Telnet, Syslog, SSH, SNMP inform, SNMP Server/Client	
MIB-II, Ethernet-Like MIB, P-BRIDGE MIB, Q-BRIDGE MIB, Bridge MIB, RSTP MIB, RMON MIB Group 1,2,3,9	
Non-Blocking Sotre-and-Forward	
4	
8K MAC w/ Auto Learning	
2 Mbit	
VID 1 to 4094 @ Max 256 VLANs	
Static and Dynamic Ports Aggregation	
Fast Ring Protection Recover <20ms	
Physical:	
5.5" x 4.5" x 2.5"	
Dual Input +12VDC@1Amp	

Fiber Interface: **GB** Ports 4 SFP Slots Data Rate 100 Mbps & 1000 Mbps Connector LC Distances 2KM@850MM, 20KM@1310SM 40KM@1310SM, 100KM@1550SM TX Interface: Ports 16 RJ45 Data Rate 10/100 Mbps TX Port Auto-MDI/MDIX Transmission Mode Half/Full Duplex 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 Port rate limit, broadcast control, Data Traffic Control mirroring and QoS Console Port RS-232 – RJ45 Connector **Environment:** -34[°] C to +74[°]C Operating -40° C to +85°C Storage 98% Non-Condensing Humidity



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