



## Product Description

Vi-Link EN2440 is a versatile Ethernet network layer 3 switches designed for robust performance across various layers of network architecture with 16\* 1000M SFP downlink ports, 8\* 10/100/1000M adaptive Ethernet ports (Combo), 4\* 10G SFP+ uplink ports, and a console port, it is engineered for seamless, high-speed connectivity. In the role of a core layer switch, the Vi-Link EN2440 functions as the backbone of a network, handling substantial data traffic with its high-capacity uplink ports. Its 10G SFP+ uplink ports ensure high-speed data transfer and reduce latency, making it ideal for critical enterprise applications. As a distribution layer switch, the EN2440 effectively manages data flows between the core and access layers. It supports essential protocols like SNMP, IEEE 802.1, STP, and RSTP, ensuring seamless distribution and high availability of network services. The DoS attack defense feature enhances security, making the network robust against malicious activities. In the access layer, the EN2440's adaptive Ethernet ports provide flexible connectivity options for end devices. Automatic adaptation to full duplex or half-duplex modes means it can efficiently manage varying device requirements and traffic loads. This makes it suitable for deployment in different business environments, from small offices to large enterprises.

## Features

- 4\*1G/2.5G/10G SFP+ uplink slots, 16\*100/1000M SFP ports+8\*1G SFP/RJ45 COMBO ports downlink, 1\* RJ45 console port and 1\* USB port for basic management and setup
- Layer 3 features: Support static and dynamic routing, RIP, OSPF, BGP4, ECMP, VRRP
- Port aggregation: Support GE ports, 2.5GE and 10GE port aggregation, static and dynamic aggregation
- VLAN: Support access, truck, hybrid mode and VLAN classification, including the Mac based VLAN, IP based VLAN and protocol based VLAN
- QinQ: Support port-based, VLAN-based and flow-based QinQ
- Port Mirroring: Many to one port mirroring
- Layer 2 ring network protocol: Support STP, RSTP, MSTP, G.8032 ERPS protocol, single ring, sub ring
- Multicast: Support IGMP snooping
- QoS: QoS class, remarking, Support SP, WRR queue scheduling, Ingress/Egress port-based rate-limit and policy-based QoS
- Security: Support Dot1x, port authentication, mac authentication, RADIUS service
- Support port-security, ip source guard, IP/Port/MAC binding, arp-check and ARP packet filtering for illegal users and port isolation
- Management: Support LLDP, user management and login authentication; SNMPV1/V2C/V3; web management, HTTP1.1, HTTPS; Syslog; RMON (Remote Monitoring) alarm, event and history record; NTP, temperature monitoring; Ping, Tracert and optical transceiver DDM function; Support TFTP Client, Telnet Server, SSH Server and IPv6 Management
- Firmware update, configure backup/restore through Web GUI, FTP and TFTP

## Applications

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

## Ordering Information

Model	Descriptions
EN2440	Managed Ethernet Switch, 4* 10 GB SFP Uplink, 24* 1000M SFP Downlink , 8* 10/100/1000M TX COMBO, 1 RU 19" Rack, 90~240 VAC

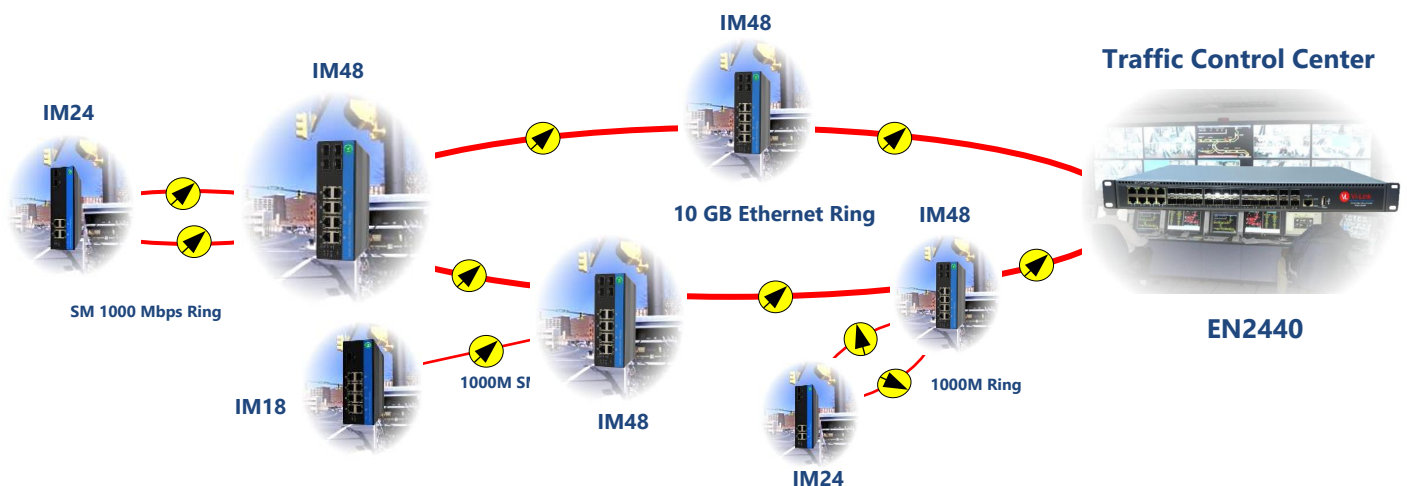
## Network TV Equipment Series

Model EN2440

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

Uplink:	
SFP Slots	4* 10 GB-SX
Downlink:	
SFP Slots	24* 10/100/1000M-LX
Data Rate	8* 10/100/1000M-TX COMBO
Network Management:	
Interface	Web Browser, CLI, Telnet, SNMP
VLAN	Port-Based, 802.1Q (4K VLANs), Protocol Based, GVRP/GARP, MVR (Multicast VLAN Registration), VLAN Isolation, Translation, VLAN VPN (QinQ)
Link Aggregation	Supports IEEE 802.3ad LACP, Static Link Aggregation, Up to 24 Aggregation Groups, 8 Ports per Groups
Flow Control	Duplex Mode, Back Pressure in Half Duplex, Loop Back Detection
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
Physical:	
Dimension	17.5" x 12" x 1.75"
Power	90~240 VAC@0.5Amp

## Application



**Typical EN2440 Ethernet Switch In Traffic Monitoring Application**