

## Fiber Optic Managed Ethernet Switch 8\* 10/100/1000M-TX & 2\* 1000M-SFP

Network Equipment Series

Model IM28



#### **Product Description**

The IM28 is an Industrial Managed Gigabit Ethernet Switch. It has 2\* 1000 Mbps fiber optic SFP ports and 8\* 10/100/ 1000 Mbps electrical ports. The IM28 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 IM28 also features powerful Web-based, CLI management capabilities, a wide input range dual power supply and its support for DIN rail and panel mounting for installation in the industrial environment.

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**

- 8\* 10/100/1000Mbps Auto-sensing RJ45 ports
- 2\* 1000Mbps SFP fiber ports, 40 Km @ Single Mode
- 8 KV Ethernet surge protection, adapt to a harsh outdoor environment
- Support Auto MDI/MDIX
- Flow control mode: full duplex with IEEE 802.3x standard, half-duplex with Back pressure standard
- IEEE 802.3 10Base-T and IEEE 802.3u 1000Base-TX compliant
- A store-and-forward switching mechanism
- Operating environment temperature: -40 ° ~85 °c
- Intelligent power consumption detection and classification
- SW-Ring ring network patent technology (Fault recovery time < 20ms)
- IGMP Snooping, GMRP and static IGMP
- VLAN, PVLAN, Port trunking, rate control, control broadcast domain
- IEEE802.1p\_QOS
- SNMP, Telnet, WEB
- SSH, SSL, ACL, automatic MAC address bounding
- IEEE 802.1d(STP), IEEE 802.1w(RSTP), IEEE 802.1s(MSTP)
- Alarming: support ARP listening, power down, and ring-alarm
- Jumbo frames support up to 16kb
- Support link monitoring, Support port mirroring

#### **Applications**

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

#### **Ordering Information**

Model	l Descriptions
IM28LC03	Managed Ethernet Switch, 2* 1000M LC SFP, SM 1310nm, 50 Km, 8* 10/100/1000M-TX RJ45 , +5 VDC
	*** Replace LC with SC for SC Connector***



# Technical Specifications

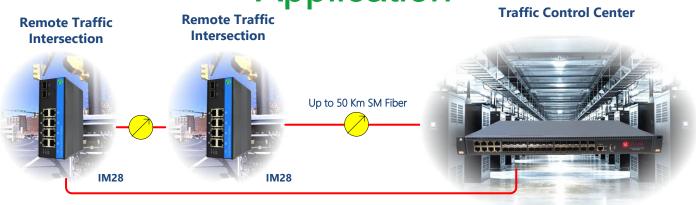
### Network TV Equipment Series

Model IM28

ystem: Frror Rate	1 in 10 <sup>12</sup> or Better
Network Standard	IEEE 802.3 100BASE-T
Network Standard	IEEE 802.3u 1000BASE-TX
	IEEE 802.3z FX
	IEEE 802.3x Flow Control
	IEEE 802.3ad Port trunk with LACP
	IEEE 802.1Q VLAN Tagging
Indicators	PWR, TP, FO, 100M
Ports	8* 10/100/1000Base-T
	2* 1000Base- LX
Frame Flow Control	Full Duplex Mode
Frame size	16K Bytes
Jumbo Frame	9000 Bytes
Layer 2 Management	Store-and Forward
	Remote Monitoring (RMON)
	Far-end Fault Indication (FEFI) Link Fault Pass Through (LFP)
	Auto Recovery
	Remote Management and Set Up
	Manual IP Address Setting / DHCP
	Loopback, Broadcast, Multicast,
	Unicast storm control
	Speed Duplex Mode Configuration Bandwidth Control on TP/FX
hysical:	Banawidin Control on 11717
Dimension	5" x 8" x 1.4"
Power	+5 VDC @1 Amp

Fiber Interface:				
Port	2* 1000Base-LX			
Data Rate	1000 Mbps			
Connector	LC			
Distances	10KM@1310MM, 50KM@1310SM			
TX Interface:				
TX Port	8* 10/100/1000Base-TX Auto-Negotiation MDI/MDIX			
Data Rate	10/100/1000 Mbps			
Connector	RJ45			
Transmission Mode	Half/Full Duplex			
Network Management :				
Interface	Web Browser, SNMPv1, v2c Monitor			
Port Configuration	Port enable, Auto-Negotiation, Full and Half Duplex mode, Flow Control Enable, Bandwidth Control			
VLAN	16 IEEE 802.1Q VLAN / Q-in-Q VLAN			
Link Aggregation	Supports IEEE 802.3ad LACP			
QoS	802.1p Priority, DSCP field in IP			
IGMP Snooping	IGMP (v1/v2) Snooping, up to 64 Multicast groups			
SNMP MIBs	RFC-1213 MIB-2, RFC-1573 MIB RFC-2819 RMON MIB (Group 1)			
Environment:				
Operating	-34° C to +74°C			
Storage	-40°C to + 95°C			
Humidity	98% Non-Condensing			

**Application** 



Typical IM28 Ethernet Switch In Traffic Monitoring Redundant Configuration

EN2440