



AUTOMATION SYSTEMS AND SOLUTION

IND-D-M-FG-1600-N

**16-port Full Gigabit Managed
Industrial Ethernet Switch**



Features:

- Web management, CLI command line (Console, Telnet), SNMP (V1/V2/V3), HTTPS, SSLV3, and SSHV1/V2.
- CPU monitoring, memory monitoring, Ping test, and cable diagnose.
- Low power consumption, fan-less design, aluminum shell.
- ALC, filter data packet through configuring matching rules, processing operation & time permission, and provide flexible and safe access control.
- QoS, Priority mode based on 802.1P, Port & DSCP, queue scheduling algorithm including EQU, SP, WRR & SP+WRR.
- Support line-speed full Gigabit Ethernet port, which facilitates flexible networking of users and meets networking requirements in various scenarios.

TECHNICAL SPECIFICATIONS

Port Configuration

Total Ports	16
RJ45 ports	16*10/100/1000Base-T RJ45 ports
console	1*Console RS232 (115200,N,8,1)

Chip Parameter

L2+	Network Management Type
Network Protocol	IEEE802.3 10BASE-T, IEEE802.3i 10Base-T, IEEE802.3u 100Base-TX, IEEE802.3ab 1000Base-TX, IEEE802.3z 1000Base-X, IEEE802.3ae 10GBase-LR/SR IEEE802.3x
Switching Capacity	256Gbps (non-blocking)
Forwarding Rate@64byte	23.81Mpps
LED Indicator	Power: PWR(green), system: SYS(green), Network: Link (yellow)
Reset Switch	Yes. press and hold for 10 seconds and then release to restore factory settings

Power

Total PWR / Input Voltage	24W/(DC12-48V)
Power Consumption	Standby<10W, Full Load<20W
Power Supply	No, optional 24V/24W industrial power supply

Physical Parameter

Operation TEMP / Humidity	-40~+80°C;5%~90% RH Non-condensing
Storage TEMP / Humidity	-40~+85°C;5%~95% RH Non-condensing
Dimension (L*W*H)	165*148*54mm
Net /Gross Weight	<1.2kg / <1.5kg

Network Management Features

Layer 3 Features	L2+ network management ,IPV4/IPV6 management, L3 soft routing forwarding, Static route, Default route @ 128 pcs, APR @ 1024 pcs
VLAN	4K VLAN based on port, IEEE802.1q
Spanning Tree	STP (IEEE802.1d),RSTP (IEEE802.1w),MSTP (IEEE802.1s)
Industrial Ring Network Protocol	G.8032 (ERPS),Recovery time less than 20ms 255 Ring at most, Max 1024 devices per ring.
Port Mirroring	Bidirectional data mirroring based on port Category 5 Ethernet network cable
System	Web browser: Mozilla Firefox 2.5 or higher, Google browser chrome V42 or higher, Microsoft Internet Explorer10 or later; TCP/IP, network adapter, and network operating system

Certification & Warranty

Lightning protection / protection level	Lightning protection: 6KV 8/20us; Protection level: IP40
Certification	CCC;CE mark, commercial; CE/LVD EN60950;FCC Part 15 Class B; RoHS;
Warranty	5 years , lifelong maintenance.



Automation
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