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iES6-SFP

Industrial 6 Port Lite-managed Ethernet Switch

Product Overview

The iES6-SFP is an industrial 6 Port lite-managed Ethernet switch with 4 x 10/100Base-T(X) RJ45 ports and 2 x 100Base-X SFP.

The iES6-SFP provides redundancy support through functions such as RSTP assuring protection of all mission critical network applications. iES6-SFP can be managed via the Web, iManage Software Suite, Telnet, and Console (CLI).

The switch is made of IP-40 galvanized steel and has a wide operating temperature range from -40°C to +85°C, which is suitable for the harshest of environments without the use of fans.

Features and Benefits

Table 1. Common Specification

FEATURE	
SUPPORTS	• RSTP (IEEE 802.1 D-2004) • LLDP (Link Layer Discovery Protocol) • Port-based VLAN • SNTP for synchronizing the switch's clocks • MRP - Media Redundancy Protocol*
SNMP V1 / V2C /V3	
MULTIPLE ALARM NOTIFICATION METHODS	
CONFIGURABLE BY WEB BROWSER, TELNET, CONSOLE(CLI), IMANAGE SOFTWARE RUNNING ON WINDOWS 10, NT/2000/XP/2003/VISTA/7	
DIN RAIL AND PANEL MOUNT	

* MRP implementation is based on IEC 62439 Ed. 1.0

PRODUCT SPECIFICATIONS

Table 2. Technical Specification

DESCRIPTION	SPECIFICATION
10/100BASE-T(X) RJ45 PORTS AUTO MDI/MDIX	4
100BASE-X SFP PORTS	2
RS-232 SERIAL CONSOLE PORT	RS-232 in RJ45 connector with console cable: 9600 bps, 8, N, 1
WARNING / MONITORING SYSTEM	Relay output for fault event alarming 2 alarm warning methods for system events supported: • SYSLOG with server / client structure; recording and viewing events in the System Event Log • SMTP for notification via email Event selection per port
ALARM	Relay output to carry capacity of 1 A at 24 VDC

Questions? Call: +1.844.520.0588

Product Specifications

TECHNOLOGY	
MAC TABLE	1024 MAC addresses
PROCESSING	Store-and-Forward
SWITCH PROPERTIES	Switching latency: 7 µs Switching bandwidth: 1.2 Gbps
SECURITY FEATURES	• RSTP (IEEE 802.1 D-2004) • Enable / disable ports • Port-based VLAN • SNMPv3 authentication and privacy encryption • Web and CLI authentication
SOFTWARE FEATURES	• Web or CLI based Management (Console or Telnet) • Redundancy— RSTP, Fast Recovery, and Ring • LLDP • Supports SNMPv1/v2/v3 • Warnings (Syslog and SMTP) and Fault Alarm (power and port failure) • SNTP for synchronizing of clocks over network
NETWORK REDUNDANCY	• RSTP (IEEE 802.1 D-2004) • Fast Recovery • Ring

PHYSICAL CHARACTERISTICS	
ENCLOSURE	IP-40 Galvanized Steel
DIMENSIONS (W X D X H)	65(W) x 164(D) x 191(H) mm (2.56x6.47x7.53 inches)
WEIGHT (G)	~700 g

POWER	
INPUT POWER	Redundant Power Supplies: Dual Input 24VDC(Nom), 10-36VDC (Oper), or Single Input 48VDC(Nom), 36-75VDC (Oper) with Single 24VDC(Nom), 10-36VDC (Oper) Backup, or Single Input 100-240VDC(Nom), 88-300VDC(Oper) or 100-240VAC(Nom), 85-264VAC(Oper) 50/60Hz with Single 24VDC (Nom), 10-36VDC (Oper) Backup
POWER CONSUMPTION (TYP.)	7 Watts
OVERLOAD CURRENT PROTECTION	Present
REVERSE POLARITY PROTECTION	Internal

Product Specifications

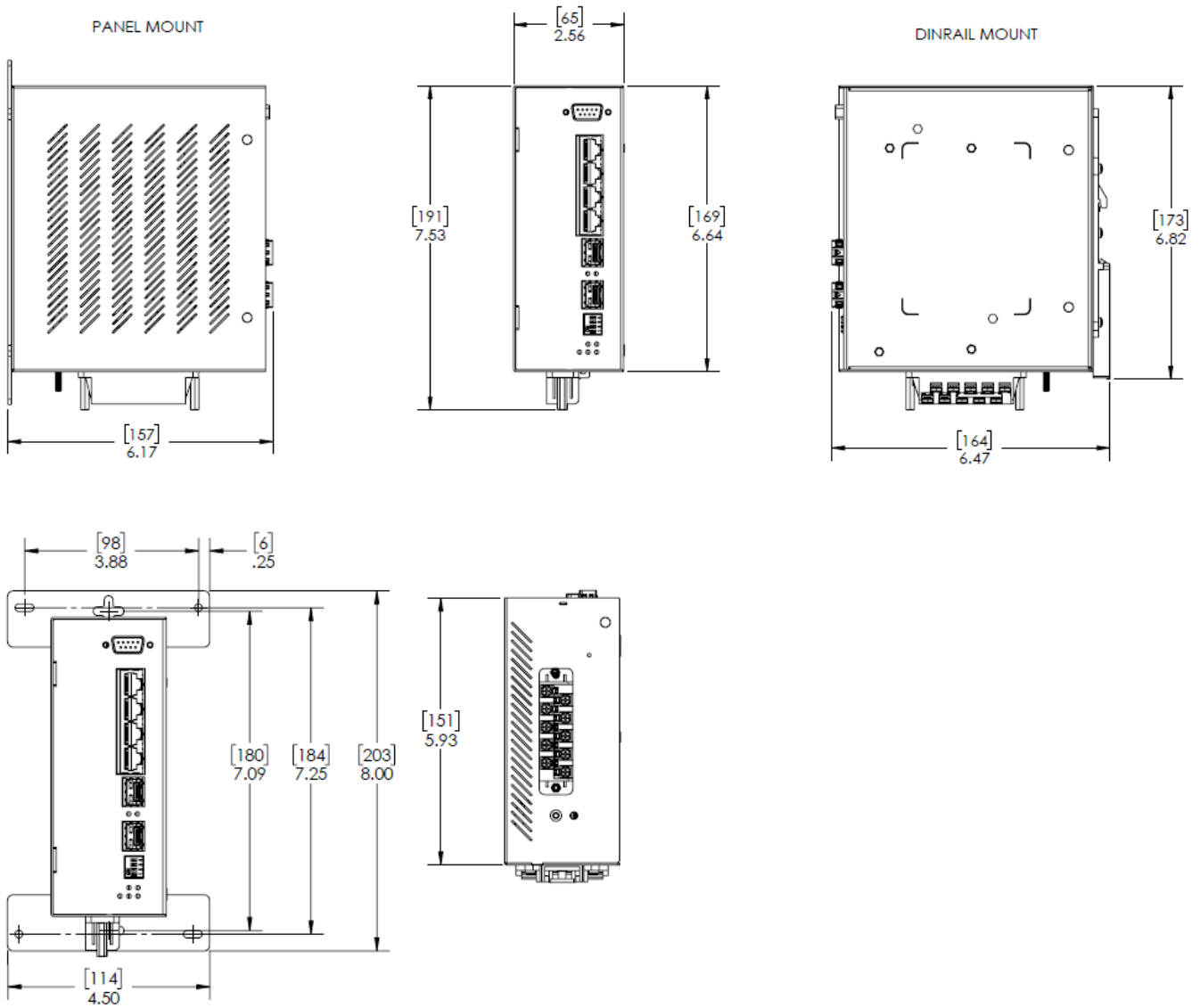Table 3. Compliance Specification

TYPE	STANDARDS
ELECTROMAGNETIC EMISSIONS	FCC Part 15, CISPR (EN55022) class A,
ELECTROMAGNETIC IMMUNITY	EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-4-4 (EFT), EN61000-4-5 (Surge), EN61000-4-6 (CS), EN61000-4-8, EN61000-4-11
SAFETY STANDARDS	EN60950-1
OPERATING ENVIRONMENT	-40ºC to +85ºC (-104º to +185ºF) (no fans) EN 60068-2-21
STORAGE ENVIRONMENT	-40ºC to +85ºC (-104º to +185ºF) EN 60068-2-14
OPERATING HUMIDITY	5% to 95% Non-condensing EN 60068-2-30
SHOCK	IEC60068-2-27
FREE FALL	IEC60068-2-32
VIBRATION	IEC60068-2-6
WARRANTY	5 years, (extendable option with additional terms)
MTBF	455104 Hours/ 51 Years (Operating Temperature: 55°C)

Table 4. Standards and Management

DESCRIPTION	SPECIFICATION	
IEEE STANDARDS	IEEE 802.3 for 10Base-T IEEE 802.3u for 100Base-TX and 100Base-FX IEEE 802.3x for Flow control IEEE 802.1D – 2004 Spanning Tree Protocol (RSTP) IEEE 802.1AB – 2016 Station and Media Access Connectivity discovery (LLDP)	
RFC COMPLIANCE	• RFC 768: UDP • RFC 783: TFTP • RFC 791: IPv4 • RFC 792: ICMP • RFC 793: TCP • RFC 854: Telnet	• RFC 959: FTP • RFC 1157: SNMPv1 • RFC 1901,1902-1907 SNMPv2 • RFC 2273-2275: SNMPv3 • RFC 2571: SNMP Management • RFC 1166: IP Addresses

Dimensions

All dimensions are shown in inches [millimeters].

PANEL MOUNT

[65]
2.56

DINRAIL MOUNT

[191]
7.53

[169]
6.64

[173]
6.82

[157]
6.17

[164]
6.47

[98]
3.88

[6]
.25

[180]
7.09

[184]
7.25

[203]
8.00

[151]
5.93

[114]
4.50

Ordering Information

SUPPORTED SFPs FOR iES6-SFP

ORDER CODE	DESCRIPTION	PORTS 5-6
SFP100-MM-550	SFP 100Mbps Multimode LC Transceiver 550m, 850nm, -40°C to +85°C	●
SFP100-MM-2	SFP 100Mbps Multimode LC Transceiver 2km, 1310nm, -40°C to +85°C	●
SFP100-SM-20	SFP 100Mbps Singlemode LC Transceiver 20km, 1310nm, -40°C to +85°C	●
SFP100-SM-40	SFP 100Mbps Singlemode LC Transceiver 40km, 1300nm, -40°C to +85°C	●
SFP100-SM-100	SFP 100Mbps Singlemode LC Transceiver 100km, 1550nm, -40°C to +85°C	●
SFP100-SM-120	SFP 100Mbps Singlemode LC Transceiver 120km, 1550nm, -40°C to +85°C	●
SFP100BIDI1-SM-40	SFP 100Mbps Bi-Directional Singlemode LC Transceiver 40km, TX1310nm, RX1550nm, -40°C to +85°C	●
SFP100BIDI2-SM-40	SFP 100Mbps Bi-Directional Singlemode LC Transceiver 40km, TX1550nm, RX1310nm, -40°C to +85°C	●

Ordering Information

BASE	POWER SUPPLY	MOUNT	ETHERNET PORT 1-4	ETHERNET PORT 5&6	MOD	DESCRIPTION
iES6-S	LV	D	4RJ45	2SFP		
iES6-S	|	|	|	|	|	Slim Line Core assembly and packaging
	LV	|	|	|	|	Dual Input 10-48VDC
	MV	|	|	|	|	Single Input 36-75VDC with Single 10-48VDC Backup
	HV	|	|	|	|	Single Input 110-370VDC or 90-264VAC with Single 10-48VDC Backup
		D	|	|	|	DIN Rail Mounting
		P	|	|	|	Panel Mounting
		N	|	|	|	No Mounting Hardware
			4RJ45	|	|	4 X 10/100Base-T(X) RJ45
				2SFP	|	2 X 100Base-X SFP (Blank no optical transceivers**)
					C1	Conformal Coating

iES6-SFP Sample Order Code

iES6-S-HV-P-4RJ45-2SFP

Description: iES6 - 6 Port Ethernet Switch, (Power Supply) Single Input 110-370VDC or 90-264VAC with Single 10-48VDC Backup, (Mount) Panel Mounting, (Ethernet Port 1-4) 4 X 10/100Base-T(X) RJ45, (Ethernet Port 5&6) 2 X 100Base-X SFP ports.

The same unit, may be ordered with conformal coating by appending '-C1' to the order code, for example:
iES6-S-HV-P-4RJ45-2SFP-C1

Description: iES6 - 6 Port Ethernet Switch, (Power Supply) Single Input 110-370VDC or 90-264VAC with Single 10-48VDC Backup, (Mount) Panel Mounting, (Ethernet Port 1-4) 4 X 10/100Base-T(X) RJ45, (Ethernet Port 5&6) 2 X 100Base-X SFP ports, This system will be conformal coated.

Specifications are subject to change without notice.   Questions? Call: +1.844.520.0588

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