

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	<ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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

Product Specifications

TECHNOLOGY

MAC TABLE	1024 MAC addresses
PROCESSING	Store-and-Forward
SWITCH PROPERTIES	Switching latency: 7 μ s Switching bandwidth: 1.2 Gbps
SECURITY FEATURES	<ul style="list-style-type: none">• RSTP (IEEE 802.1 D-2004)• Enable / disable ports• Port-based VLAN• SNMPv3 authentication and privacy encryption• Web and CLI authentication
SOFTWARE FEATURES	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• 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	Dual Inputs 10-48VDC, Single Input 36-75VDC with Single 10-48VDC Backup, or Single Input 110-370VDC or 90-264VAC 50/60Hz with Single 10-48VDC Backup
POWER CONSUMPTION (TYP.)	7 Watts
OVERLOAD CURRENT PROTECTION	Present
REVERSE POLARITY PROTECTION	Internal

Product Specifications

Table 3. Compliance Specification

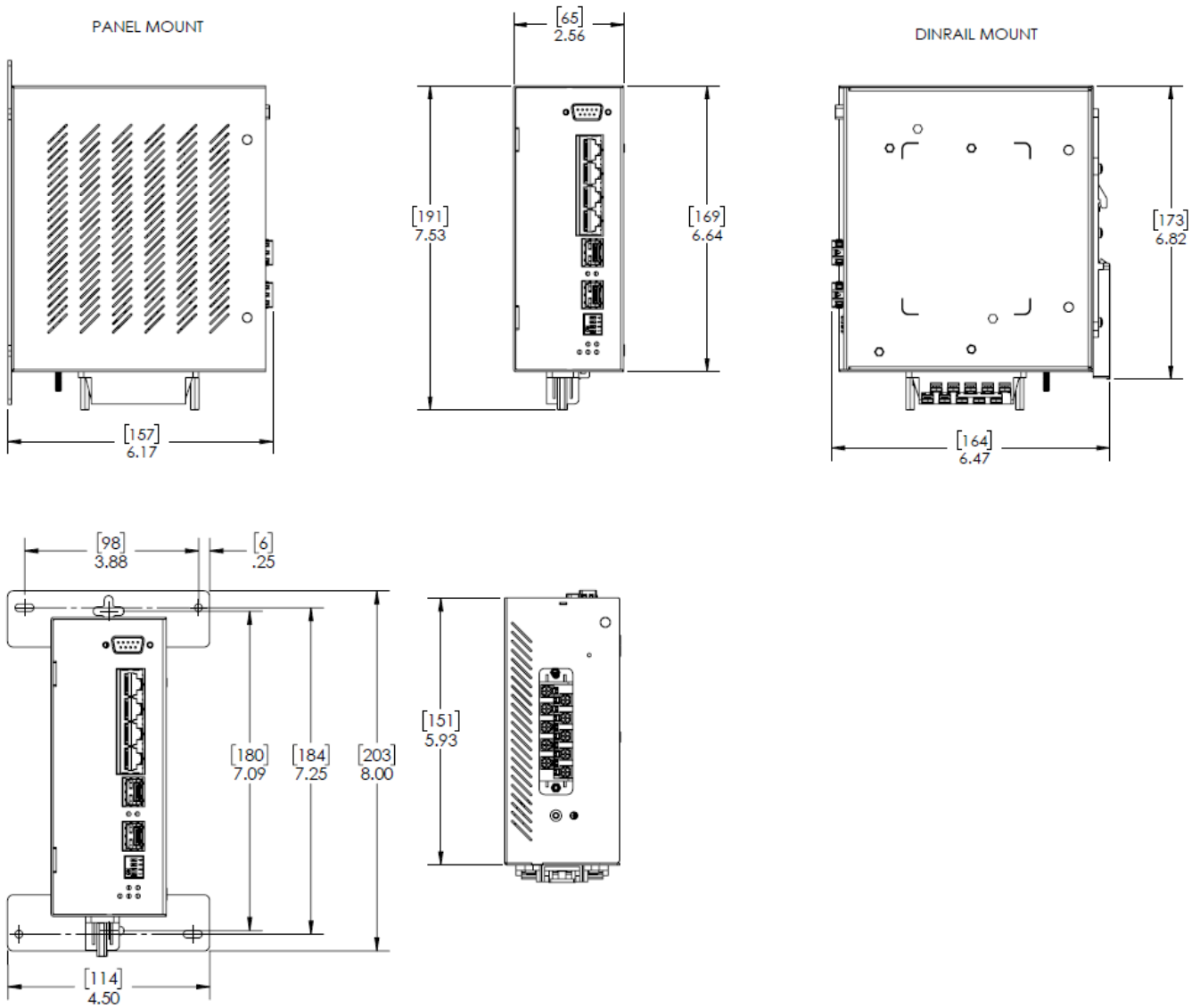
TYPE	STANDARDS
ELECTROMAGNETIC EMISSIONS	FCC Part 15, CISPR (EN55022) class A,
ELECTROMAGNETIC IMMUNITY	EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-4-4 (EFT), EN61000-4-5 (Surge), EN61000-4-6 (CS), EN61000-4-8, EN61000-4-11
SAFETY STANDARDS	EN60950-1
OPERATING ENVIRONMENT	-40°C to +85°C (-104° to +185°F) (no fans) EN 60068-2-21
STORAGE ENVIRONMENT	-40°C to +85°C (-104° to +185°F) 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	<ul style="list-style-type: none"> • RFC 768: UDP • RFC 783: TFTP • RFC 791: IPv4 • RFC 792: ICMP • RFC 793: TCP • RFC 854: Telnet <ul style="list-style-type: none"> • 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].



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.



SERVICES • SUPPORT • SECURITY • SOLUTIONS • SYSTEMS

For more information, visit: is5com.com

toll free: +1-844-520-0588 | fax: +1-289-401-5206 | info@is5com.com

technical support: +1-844-475-8324 | support@is5com.com

5895 Ambler Drive. Mississauga, Ontario. L4W 5B7, Canada