

Data Sheet

iES10G-S

Intelligent 10 Port Managed Gigabit Ethernet Switch

Product Overview





The iES10G-S is an intelligent 10 Port managed Ethernet switch with 7 x 10/100Base-T(X) RJ45 ports, up to 3 x 10/100/1000Base-T(X) RJ45 ports, up to 3 Combo 10/100/1000Base-T(X) RJ45 ports, and up to 2 x 100/1000Base-X SFP ports.

The iES10G-S provides redundancy support through functions such as STP/RSTP/MSTP assuring protection of all mission critical network applications. iES10G-S can be managed via the Web UI, iManage Software Suite, Telnet, and Console (CLI) / SSH v2.

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.

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Features

Table 1. Features

Feature					
Supports:	 STP / RSTP / MSTP LLDP (Link Layer Discovery Protocol) Modbus TCP VLAN Priority—supports priority-tagged frames to be received by specific IEDs HTTPS / SSH v2 SNTP for synchronizing the switch's clock 				
IGMP v2	/ v3 (IGMP Snooping)				
SNMP v1	l / v2c / v3				
	for 802.1x authentication + for user login authentication				
Supports DDM (Digital Diagnostic Monitoring) function for SFP modules					
Multiple alarm notification methods					
Configurable by Web UI, Telnet, Console(CLI), iManage software running on Windows 10, NT /2000/ XP/2003/VISTA/7					
DIN rail and panel mount					



Product Specifications

Table 2. Technical Specification

Description	Specification				
10/100Base-T(X) RJ45	7				
1 X 10/100/1000Base-T(X) RJ45	Up to 3				
Combo*** 10/100/1000Base-T(X) RJ45 and 100/1000Base-X	Up to 3				
100/1000Base-X SFP	Up to 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				
Technology					
MAC Table	8K				
Priority Queues	4				
Processing	Store-and-Forward				
Switch Properties	Switching latency: 7 µs Switching bandwidth: 7.4 Gbps Max. Number of Available VLANs: 4096 IGMP multicast groups: 32 Port rate limiting: User Defined				
Security Features	 STP/RSTP/MSTP RADIUS for 802.1x authentication TACACS+ for user login authentication Port based network access control (NAS) 802.1x VLAN (802.1 Q) for segregation and securing network traffic enabled by GVRP SNMPv3 authentication and privacy encryption Management Security Port security and MAC Blacklist IP Guard HTTPS / SSH v2 Web and CLI authentication and authorization 				



Design of the second					
Description	Specification				
Software Features	 Web or CLI based Management (RS-232 Serial Console or Telnet / SSH v2) HTTPS DHCP Server /Client / Relay VLAN—Port-based (untagged) and 802.1Q (tagged) Supports SNMPv1/v2/v3 Traffic Prioritization—QoS, Port-based Priority, COS/802.1p, TOS/ DSCP Multicast traffic—IGMP Snooping (IGMP v2 / v3), MVR, Static Multicast Filtering Warnings (SYSLOG and SMTP), Fault Alarm (power and ports failure), and Event Selection Monitoring and Diagnostics—MAC Table and Port Statistics, Counters, and Monitoring, System Event Log, Traffic Monitoring, and Ping SNTP for synchronizing of clocks over network 				
Network Redundancy Physical Characteristics	• STP/ RSTP/ MSTP, Fast Recovery, Dual Port Recovery, and Ring				
Enclosure	IP-40 Galvanized Steel				
Dimensions (W x D x H)	114 (W) x 154 (D) x 203 (H) mm (4.50 x 6.08 x 8.00 inches) panel mount 162 (W) x 151 (D) x 191 (H) mm (2.56 x 5.93 x 7.53 inches) DIN rail mount				
Weight (g)	~ 1000 g				
Power					
Input Power	Dual Input 10-48VDC, Single Input 36-75VDCwith Single 10-48VDC Backup, or Single Input 110-370VDC or 90-264VAC with Single 10- 48VDC Backup				
Power Consumption (Typ.)	12 Watts				
Overload Current Protection	Present				
Reverse Polarity Protection	Internal				



Table 3. Compliance Specifications

Туре	Standards				
Electromagnetic Emissions	FCC Part 15, CISPR (EN55022) class A, EN50155 (EN50121-3-2, EN55011, EN50121-4)				
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 (-40° to 185°F) (no fans) EN 60068-2-21				
Storage Environment	-40°C to +85°C (-40° 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				

Table 4. Standards and Management

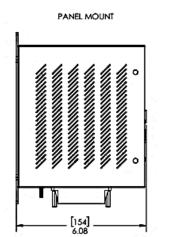
Description	Specification				
IEEE Standards	IEEE 802.3 for 10Base-T IEEE 802.3u for 100Base-TX and 100Base-FX IEEE 802.3ab for 1000Base-T IEEE 802.3ab for 1000Base-X IEEE 802.3x for Flow control IEEE 802.1D Spanning Tree Protocol IEEE 802.1W -2001 Rapid Spanning Tree Protocol (RSTP) IEEE 802.1D-2004 Rapid Spanning Tree Protocol (RSTP:2004) IEEE 802.1X-2010 Port Based Network Access Control IEEE 802.1AB – 2016 Station and Media Access Connectivity discovery (LLDP)				
RFC Compliance	 RFC 768: UDP RFC 783: TFTP RFC 793: TFTP RFC 791: IPv4 RFC 792: ICMP RFC 793: TCP RFC 1166: IP Addresses RFC 959: FTP RFC 1643: Ethernet RFC 1643: Ethernet RFC 1157: SNMP RFC 1643: Ethernet RFC 1643: Ethernet RFC 1643: Ethernet RFC 1901,1902- 1907 SNMPv2 RFC 2131, 2132: DHCP RFC 2817 Upgrading to TLS Within RFC 2818 HTTP Over TLS RFC 3376: IGMP v3 RFC 2474: DiffServ Precedence RFC 3046: DHCP Relay Agent Information Option RFC 3580: 802.1x RADIUS RFC draft-ietf-opsawg-tacacs-09 -TACACS+ 				

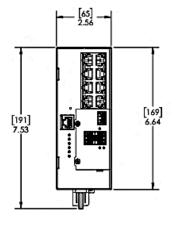


Dimensions

All dimensions are shown in inches.

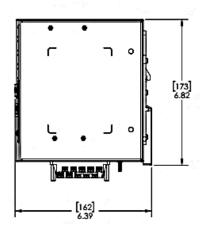


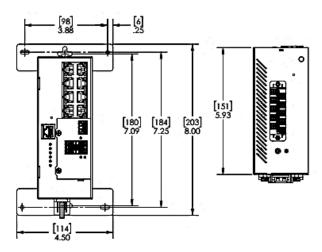






DINRAIL MOUNT







Ordering Information

Base	Power Supply	Mount	Ethernet Port 1-7(8)*	Ethernet Port 9 & 10	Conformal Coating	Description
iES10G-S	LV	D	7RJ45&1GRJ45	2GSFP	C1	
iES10G-S	1	1	1	1	1	Slim Line Managed core assembly and packaging
	LV	1	1	1	1	Dual Input 10-48VDC
	MV	1	1	1	1	Single Input 36-75VDC with Single 10-48VDC Backup
	HV	1	1	1	1	Single Input 110-370VDC or 90-264VAC with Single 10- 48VDC Backup
		D	1	1	1	DIN Rail Mounting
		Р	1	1		Panel Mounting
		N	1	1	1	No Mounting Hardware
			1	1	1	None
			7RJ45&1GRJ45	1	1	7 X 10/100Base-T(X) RJ45 and 1 X 10/100/1000Base- T(X) RJ45
			7RJ45&1GCX	1	1	Combo*** 1 X 10/100/1000Base-T(X) RJ45 and 1 X 100/1000Base-X
				XX		None
				2GRJ45	1	2 X 10/100/1000Base-T(X) RJ45
				2GSFP	1	2 X 100/1000Base-X SFP (Blank no optical transceivers**)
				2GCX		Combo*** 2 X 10/100/1000Base-T(X) RJ45 and 2 X 100/1000Base-X (Blank no optical transceivers**)
					C1	Conformal Coating

*Port 9&10 cannot be XX when 7RJ45&1GCX is selected

**SEE ACCESSORIES FOR SFP TRANSCEIVER PRICING

***Combo of the 2 ports available, only 1 Port can be used in combination

Example Order Code Description:

iES10G-S-LV-D-7RJ45&1GCX-2GSFP-C1

10 Port Ethernet Świtch with a combination of Gigabit Ports, Slim Line, (Power Supply) Dual Input 10-48VDC, DIN Rail Mounting, (Ethernet Port 1-7(8))—7 X 10/100Base-T(X) RJ45 and 1 X 10/100/1000Base-T(X) RJ45, (Ethernet Port 9 & 10)—2 X 100/1000Base-X SFP, C1 - added for conformal coating.