

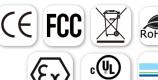
IES-2008B

8 10/100TX Industrial Managed Ethernet Switch

- UL Class I Division II for Group A,B,C and D certified (C1D2/ATEX model)
- ATEX Directive 94/9/EC certified (C1D2/ATEX model)
- Pro-Ring2se for self-heal ring<20ms
- Support Advanced SNMP including QoS, IGMP query & source only,
 CPU load monitoring
- Watchdog Design and Factory Default Button
- DNV Type Approved for Ships, Craft and Off-shore Platforms**



Non-DNV model







DNV model

OVERVIEW

The Lantech IES-2008B is an 8-port 10/100BaseTX SNMP industrial Ethernet switch with Pro-Ring IIs self-recovery scheme in 20ms. The advanced SNMP management features include QoS for 4 queues, 802.1q VLAN, IGMP snooping, query and source only for multicast IP surveillance, SSH/SSL* as well as Web Ping, CPU load monitoring, SNTP and SMTP etc.

The Pro-Ring2se self-recovery scheme can recover Ring network in less than 20ms with single ring up to 50 switches with one step setup. Lantech IES-2008B builds all the important management features required in large network like DHCP Client/Server, 802.1X authentication, IGMP Query / Snooping and source only for reverse multicast flow, and advanced QoS. It also supports Ping commands via Web to detect whether a specific device is still connected for easy trouble-shooting.

The IES-2008B has the relay contact that is able to connect with alarm system and send Email and SNMP trap alert in case of power or port failure. It also has the built-in factory reset button and watchdog design can restore all setting back to factory default and automatically reboot the switch when CPU loading

is find dead.

The IES-2008B is designed to meet with critical network environment with IP 30 enclosure and test under extensive Industrial EMI and Safety standards. With UL Class I Division II / ATEX Directive 94/9/EC approval, the IES-2008B-C1D2/ATEX can be implemented in hazardous or explosive condition without accelerating the damage. It's the best choice for inflammable environment where the liquid, gas and vapor etc might present the hazardous condition which generally to be find in mining, oil & gas, chemical, processing automation areas. It's also suitable for surveillance, factory automation, transportation, telecom / ISP outside terminal, heavy industrial factory and other factory assembly lines.

The Lantech IES-2008B is the best to be used in municipal, city surveillance, automation, transportation, mining, heavy Industrial factory and other factory assembly lines where needs reliable and robust network. The -E / -C1D2ATEX model can be used in extreme environments with an operating temperature range of -40°C to 75°C.



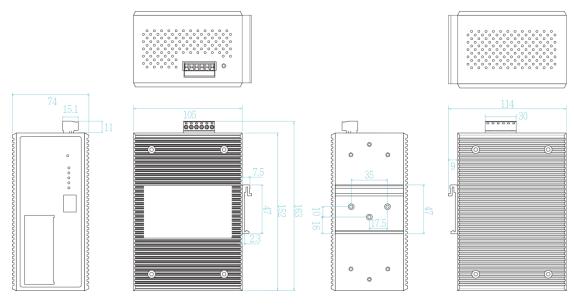
FEATURES & BENEFITS

- Pro-Ring2se for self-recovery scheme in less than
 20ms for single-ring with one setup
- Back-plane (Switching Fabric): 1.6Gbps
- 1Mbits Packet Buffer / 8K MAC address table
- UL Class I Division II for Group A,B,C and D certified
- ATEX Directive 94/9/EC certified (-C1D2/ATEX model)
- IP30 metal housing with DIN rail and Wall-mount** design
- Provides EFT protection ±2000 VDC for power line
- Supports ±6000 VDC for ESD protection
- Support CPU load monitoring and Web Ping to check if the connected device is alive
- IEEE 802.1d Spanning Tree & IEEE 802.1w RSTP
- IGMP with Snooping and Query mode for Multi Media Application
- IGMP source only for reverse multicast application
- Static Multicast Route for non-IGMP application
- Port Based VLAN, 802.1Q Tag VLAN
- Port Trunk with LACP
- Supports IEEE 802.1ab LLDP
- Supports IEEE 802.1p CoS, 4 priority queues per port

- Port base, Tag Base and Type of Service Priority
- Supports Ingress Packet Filter and Egress Rate Limit
- Supports Broadcast/Multicast Packet Filter Control
- Port Mirror: Monitor traffic in switched networks
 - · TX, RX, Both of TX and RX Packet
- System Log Server/Client
- SMTP e-mail Alert up to 6 emails
- Security
 - · Port Security: MAC address entries/Filter
 - IP Source Guard: IP address security management to prevent unauthorized intruder
 - · Login Security: IEEE802.1X/RADIUS
- SNMP Trap
 - Device cold start, Power status, Authentication failure, Port Link up/Link down
- Relay Alarm Output System Events
- TFTP & Web Firmware Update & System Configure Restore/Backup
- Factory reset bottom can restore all setting back to factory default and Watchdog design to automatically reboot switch when CPU load is found dead

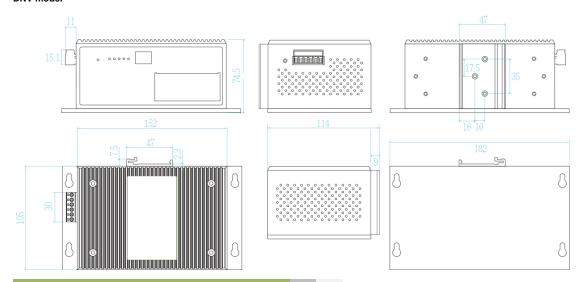
DIMENSIONS (unit=mm)

Non-DNV model





DNV model



SPECIFICATION

	TCATION		
Hardware Specification		Case Dimension	IP-30,
IEEE Standards	IEEE802.3 10Base-T Ethernet		74(W) x 105 (D) x 152 (H) mm (non-DNV model)
	IEEE802.3u 100Base-TX		74.5(W) x 105 (D) x 182 (H) mm (DNV model)
	IEEE802.3x Flow Control and Back Pressure	Weight	850 g (non-DNV model)
	IEEE802.3ad Port trunk with LACP		1000 g (DNV model)
	IEEE802.3af Power over Ethernet	Fan Number	0
	IEEE802.1d Spanning Tree	Installation	DIN Rail and Wall Mount** Design
	IEEE802.1w Rapid Spanning Tree	EMI & EMS	FCC Class A, CE EN61000-4-2,
	IEEE802.1p Class of Service		CE EN61000-4-3, CE EN61000-4-4,
	IEEE802.1Q VLAN Tag		CE EN61000-4-5, CE EN61000-4-6,
	IEEE802.1x User Authentication (Radius)		CE EN61000-4-8, CE EN61000-4-11,
	IEEE802.1ab LLDP		CE EN55032 Class A, CE EN55024
Switch Architecture	Back-plane (Switching Fabric): 1.6Gbps	Safety	UL 60950
Transfer Rate	14,880pps for Ethernet port		UL Class I Division II for Group A,B,C and D
	148,800pps for Fast Ethernet port		hazardous location
Packet Buffer	1Mbits		ATEX Directive 94/9/EC (-C1D2/ATEX model)
MAC Address	8K MAC address table	Stability Testing	IEC60068-2-32 (Free fall), IEC60068-2-27 (Shock),
Flash ROM	4Mbytes		IEC60068-2-6 (Vibration)
DRAM	32Mbytes	Power	7W at full load
Connectors	10/100TX: 8 x ports RJ-45 with Auto MDI/MDI-X	Consumption	
	function	MTBF	1,034,882 hours
	RS-232 connector: RJ-45 type	Warranty	5 years
Network Cable			
	EIA/TIA-568 100-ohm (100m)	Management	SNMP v1 v2c, v3/ Web/Telnet/CLI
	100Base-TX: 2-pair UTP/STP Cat. 5/ 5E/ 6 cable	SNMP MIB	RFC 1215 Traps MIB,
	EIA/TIA-568 100-ohm (100m)		RFC 1213 MIBII
LED	Per unit: Power (Green), Power 1 (Green), Power 2		RFC 1158 MIBII
	(Green), Fault (Yellow), Master (Green)		RFC 1157 SNMP MIB,
	8 port 10/100: Link/Activity (Green), Full		RFC 1493 Bridge MIB,
	duplex/Collision (Yellow)		RFC 1573 IF MIB RFC 2674 VLAN MIB,
	R.M. indicator (Green)		Partial RFC 1643 EtherLike,
Power Supply	12V~48VDC(9V~56VDC);Dual power connector		Partial RFC 1757 RMON,
	removable terminal block for master and slave power		RFC 2674 Q-Bridge MIB; Bridge MIB,
Overload current	Present		RFC 2790 Host Resource MIB
protection			LLDP MIB*
Operating Humidity	5% ~ 95% (Non-condensing)		RSTP MIB*
Operating	Standard: -20°C~60°C / -4°F~140°F		Private MIB
Temperature	Wide Operating Temperature (-E / -C1D2/ATEX /	System Information	Show detail info incl.Name, Version
	-DNV model):		CPU load monitoring for every 1,5,15 minutes
	-40°C~75°C / -40°F~167°F		Display network parameters incl. Mac, IP, Gateway,
Storage	-40°C~85°C / -40°F~185°F		Netmask
			Allow adding port description



Pro-Ring 2se	Pro-Ring 2se system Topologies for network recovery		Internet
	in less than 20ms up to 50 switches.	Bandwidth Control	Support ingress packet filter and egress packet limit
	Note:Pro-Ring2se is not compatible with	& Storm Control	The egress rate control supports all of packet type
	Pro-Ring2s/Pro-RingII Pro-Ring I; 20ms recovery is		and the limit rates are 100K~102400Kbps(10/100),
	on fiber port.		100K~256000Kbps(1000)
VLAN	Port Based VLAN		Ingress filter packet type combination rules are
	IEEE 802.1Q Tag VLAN (256 entries)/ VLAN ID (Up		Broadcast/Multicast/Unknown Unicast packet,
	to 4K, VLAN ID can be assigned from 1 to 4096.)		Broadcast/Multicast packet, Broadcast packet only
Port Trunk with	LACP Port Trunk: 4 Trunk groups/Maximum 4 trunk		and all of packet. The packet filter rate can be set
LACP	members		from 100K~102400Kbps(10/100),
LLDP	Supports LLDP to allow switch to advise its		100K~256000Kbps(1000)
	identification and capability on the LAN	Relay Alarm	Provides one relay output for port breakdown, power
Spanning Tree	Supports IEEE802.1d Spanning Tree, IEEE802.1w		fail alarm.
	Rapid Spanning Tree		Alarm Relay current carry ability: 1A @ DC24V
Quality of Service	The quality of service determined by port, Tag and	SNMP Trap	1. Cold start
	IPv4 Type of service, IPv4/IPv6 Different Service		2. Link down
Class of Service	Supports IEEE802.1p class of service, per port		3. Link up
	provides 4 priority queues		4. Authorization fail
Port Security	Supports 100 entries of MAC address for static MAC	DHCP	Provides DHCP Client/ DHCP Server/ Port and IP
	and another 100 for MAC filter		Binding
Port Mirror	Supports 3 mirroring types: "RX, TX and Both packet"	DNS	Provide DNS client feature and support Primary and
IGMP & Static	Supports IGMP snooping v1,v2		Secondary DNS server.
Multicast	256 static multicast forwarding groups and IGMP	Firmware Update	Supports TFTP/Web firmware update, TFTP backup
Forwarding	query		and restore. White list for TFTP upgrade and
IP Source Guard	Supports 10 IP addresses that have permission to		configuration editable file
	access the switch management and to prevent	Factory reset &	Factory reset bottom can restore all setting back to
	unauthorized intruder.	Watchdog design	factory default and Watchdog design to automatically
Login Security	Supports IEEE802.1X Authentication/RADIUS/Telnet		reboot switch when CPU loading is too high
Flow Control	Supports Flow Control for Full-duplex and Back		*Future Release
	Pressure for Half-duplex		**Optional
System Log	Supports System log record and remote system log		·
	server		
SMTD	Supports SMTP Server and 6 e-mail accounts for		
SMTP	"		
ONTO	receiving event alert		
SNTP	Supports SNTP to synchronize system clock to		

ORDERING INFOMATION

■ IES-2008B......P/N: 8350-232

8 10/100TX Pro-Ring IIs Industrial Managed Ethernet Switch; -20°C to 60°C

■ IES-2008B-E.....P/N: 8350-233

8 10/100TX Pro-Ring IIs Industrial Managed Ethernet Switch; -40°C to 75°C

■ IES-2008B-DNV......P/N: 8350-233DNV

8 10/100TX Pro-Ring IIs Industrial Managed Ethernet Switch; -40°C to 75°C; DNV type approval

IES-2008B-C1D2/ATEX......P/N: 8350-233-C1D2/ATEX

8 10/100TX Pro-Ring IIs Industrial Managed Ethernet Switch; -40°C to 75°C; ATEX Directive 94/9/EC

OPTIONAL ACCESSORIES

DIN Rail Power

■ MDR-40 Series 40W Single Output Industrial Din Rail Power; 85-264VAC / 120-370VDC Input Range; Cooling by free air convection; RoHS2;

Operating Temp. -20°C~70°C (ambient, derating each output at 4% per degree from 60° C ~ 70° C)

■ MDR-20 Series 20W Single Output Industrial Din Rail Power; 85-264VAC / 120-370VDC Input Range; Cooling by free air convection; RoHS2;

Operating Temp. -20°C~70°C (ambient, derating each output at 2.5% per degree from 50° C ~ 70° C)

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