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OVERVIEW

Lantech LES-2208 is a small network management switch featured with 8 UTP ports and 1 Giga Mini GBIC + 1 GigaT connection port. With DHCP server and client function, users of LES-2208 can manually configure a specific IP address, or direct the device to obtain an address from the scope. To avoid network traffic jam, LES-2208 supports Quality of Service (QoS) and 4 priority queues with CoS (Class of Service) standard.

The Internet Group Management Protocol (IGMP snooping) and query manages the multiple broadcast application on the network, for on-line study or video conference and so on. LES-2208 provides several interfaces for management, including Web, SNMP, Telnet, CLI, and RMON, making it easy and flexible for user to manage and control the enterprise network.

LES-2208 supports Lantech patent-pending feature "Pro-Ring", which covers X-Ring, Couple Ring, and Dual Homing topology. X-Ring enables auto-network-recovery in less than 10ms, connecting up to 250 units in one X-Ring group.

Lantech LES-2208 provides a stable and controllable network environment with convenience. With its powerful functions, it is your best choice for enterprise and home network.

FEATURES & BENEFITS

- 8 10/100TX + 1 Mini GBIC socket and 1 Gigabit copper
- Conforms to IEEE802.3 10BASE-T, 802.3u 100BASE-TX, 802.3z Gigabit fiber and IEEE 802.3ab 1000Base-T
- Pro-Ring covers X-Ring, Couple Ring, and Dual Homing topology
- X-Ring feature for auto-network-recovery in less than 10 ms up to 250 units in one Ring
- 5.6Gbps switch bandwidth
- 802.1p CoS, per port 4 queues
- IGMP snooping and Query mode support for Multi-Media application
- Port mirror and bandwidth control
- Supports GVRP function
- TFTP firmware update
- Web/SNMP/Telnet/CLI /RMON management
- Per port band width control
- Management IP address security
- System log

Port Based VLAN /802 .1Q VLAN

IEEE802.3x Flow control

- Flow control for full duplex
 Back pressure for half duplex
- IEEE802.3ad Port trunk with LACP
- Spanning tree protocol
- STP / Rapid STP
- QoS for below method:
 Port based / Tag based
 IPv4 ToS / Ipv4, IPv6 DiffServe
- IEEE 802.1x user authentication
- Broadcast storm filter
- DHCP Client, Server
- SNTP and SMTP support
- MAC address security
- SNMP Trap support
- Configuration up-load and down-load

Datasheet Version 1.0



SPECIFICATION

Hardware Sp	pecification		ports.
Standard	IEEE 802.3 10Base-T Ethernet	Spanning Tree	IEEE802.1d Spanning tree
	IEEE 802.3u 100Base-TX		IEEE802.1w Rapid spanning tree
	IEEE802.3ab 1000Base-T	VLAN	Port based VLAN
	IEEE802.3z Gigabit fiber		Double Tag VLAN for management
	IEEE802.3x Flow Control and Back Pressure		IEEE802.1Q Tag VLAN.
	IEEE802.3ad Port trunk with LACP		The static VLAN groups up to 256 and dynamic VLA
	IEEE802.1d Spanning Tree		groups up to 2048,
	IEEE802.1w Rapid Spanning Tree		the VLAN ID can be assigned from 1 to 4094.
	IEEE802.1p Class of Service		GVRP function supports 256 groups.
	IEEE802.1Q VLAN Tag		Double Tag VLAN (Q in Q)*
	IEEE 802.1x User Authentication (Radius)	Class of Service	Per port supports 4 queues.
Connector	10/100TX: 8 x ports RJ-45 with Auto MDI/MDI-X		Weight round ratio (WRR): High: Mid-High: Mid-Lo
	function		Low (8:4:2:1)
	10/100/1000T: 1 x ports RJ-45 with Auto MDI/MDI-X	Quality of Service	Port based, Tag based, IPv4 Type of service, IPv6
	function		Different service.
	Gigabit fiber: 1 x Mini-GBIC	IGMP	IGMP v1 and v2 compliance and also supports 256
	RS-232 DB-9 Female connector for switch		IGMP groups and support query mode.
	management	Port Security	It supports ingress and egress MAC address filter a
Switch architecture	Store and forward switch architecture. 5.6Gbps		static source MAC address lock
	system backplane. System throughput up to	Port Mirror	Global system supports 3 mirroring types: "RX, TX
	8.3Mpps.		and Both packet". The maximum of port mirror entr
MAC address	8K MAC address table with Auto learning function		is up to 8.
DRAM	32Mbytes	Bandwidth Control	Ingress rate limiting packet type: all of frames,
Packet buffer	1Mbits for packet buffer		broadcast, multicast, unknown unicast and broadca
Flash ROM	2Mbytes		packet.
	,		Egress rate shaping supports all of packet.
System memory	8Mbytes		Rate limiting levels: 100kbps to 64Mbits or up to
LED	System Power (Green)		256Mbits for Gigabit port.
	10/100TX Port: Link/Activity (Green),	User Authentication	Support IEEE802.1x User-Authentication and can
	Full-duplex/Collision (Yellow),		report to RADIUS server.
	100Mbps(Green)		→ Reject
	Gigabit copper port: 1000/100Mbps (Green/Yellow),		→ Accept
	Link/Activity (Green),		→ Authorize
	Full Duplex/Collision (Yellow)		→ Disable
DO 000	Mini GBIC: Link/Activity	DHCP	DHCP Client and DHCP Server. Provide global IP
RS-232 connector	One RS-232 DB-9 Female connector for switch	Brior	pool for DHCP server.
<u> </u>	management	Packet filter	Broadcast storm packet filter.
Power supply	90~240VAC, 50/60Hz	Port security	Ingress and egress MAC address security, per port
Power consumption	10 Watts (Maximum)	T off Security	support 50MAC addresses.
Ventilation	Fan free design		Port MAC address number limiting, per port support
Operating	0°C~45°C, 5%~95%RH		50 MAC addresses.
environment		ID e e euritu	
Storage	-40°C~70°C, 95% RH	IP security	Support 10 IP address accounts for system
environment			management security for Web, SNMP, Telnet
Environment	FAN fail detect (for two fans), Power detection	Curata na la n	management security to prevent intruder.
monitor		System log	Remote Log Server support.
Dimension	217mm(W) x 140mm(D) x 43mm(H)		Provide 1000 log entries.
EMI	Compliance with FCC Class A, CE	SMTP	Support SMTP Server and 6 e-mail accounts for
Safety	Compliance with UL, cUL, CE/EN60950		receiving event alert
Warranty	2 years	SNTP	Support SNTP to synchronize system clock in
Software Sp	ecification		Internet
Management	SNMP v1, SNMP v2c, SNMP v3, Telnet, Console	Configuration	Support text format configuration file for system
	(CLI) and Web management.	upload and	quick installation
REC standard	RFC2233 MIBII, RFC 1157 SNMP MIB, RFC 1493	download	
RFC standard	Bridge MIB, RFC 2674 VLAN MIB, RFC 2665	Pro-Ring	Pro-Ring covers X-Ring, Couple Ring, and Dual
			Homing. X-Ring feature for auto-network-recovery
	Ethernet like MIB, RFC1215 Trap MIB, RFC 2819		less than 10 ms
	RMON MIB, Private MIB, RFC2030 SNTP, RFC 2821		*Future Relea
	SMTP, RFC 1757 RMON1 MIB, RFC 1215 Trap		**Optio
SNMP Trap	Cold start, warm start, link down, link up,		
	authorization fail, Trap station up to 3.		
Firmware Upgrade	TFTP,		
Dort Trunk	Support IEEE802.3ad with LACP function. Up to 3		
Port Trunk	trunk groups and maximum group member up to 4		

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ORDERING INFOMATION

LES-2208......P/N: 8330-820 8 10/100TX + 1 Gigabit copper + 1 MINI GBIC managed switch

OPTIONAL ACCESSORIES

Mini GBIC (SFP)

8330-162 8330-163 8330-165 8330-166 8330-166 8330-169 8330-167 8330-168 8330-170	MINI GBIC 1000SX (LC/0.5km) Transceiver MINI GBIC 1000SX2 (LC/2km) Transceiver MINI GBIC 1000LX (LC/10km) Transceiver MINI GBIC 1000LHX (LC/40km) Transceiver MINI GBIC 1000XD (LC/60km) Transceiver MINI GBIC 1000ZX (LC/80km) Transceiver MINI GBIC 1000T (100m) Transceiver MINI GBIC 1000EZX (120m) Transceiver
■ 8330-061 ■ 8330-060	100Base LX 30KM, Single-mode, LC Transceiver 100Base FX 2KM, Multi-mode, LC Transceiver
8330-188	LTSFP-1000BX-10KM Transceiver (WDM 1310)
8330-189	LTSFP-1000BX-10KM Transceiver (WDM 1550)
8330-186	LTSFP-1000BX-20KM Transceiver (WDM 1310)
8330-187	LTSFP-1000BX-20KM Transceiver (WDM 1550)
8330-180	LTSFP-1000BX-40KM Transceiver (WDM 1310)
8330-182	LTSFP-1000BX-40KM Transceiver (WDM 1550)
8330-181	LTSFP-1000BX-60KM Transceiver (WDM 1310)
8330-183	LTSFP-1000BX-60KM Transceiver (WDM 1550)
8330-184	LTSFP-1000BX-80KM Transceiver (WDM 1490)
8330-185	LTSFP-1000BX-80KM Transceiver (WDM 1550)

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