LGS-2624C

20 10/100/1000T + 4 1000T/100/1000M SFP Combo + 2 100/1000M SFP

L2 Plus Managed Switch

- *Advanced L2 + SNMP Management*
- *Supports IPv4 & IPv6, MSTP , SSH/SSL, TACAS+, ACLs*
- *Support IGMP v3 and Proxy, MVR*
- *IEEE 802.3az for Energy Efficient Ethernet Task Force*
- *DNV Type** Approved for Ships, Craft and Off-shore Platforms*

OVERVIEW

Lantech LGS-2624C is a 20-port 10/100/1000 Base-TX + 6 100 /1000M SFP L2 managed switches which supports full SNMP features, including QoS for 4 queues, 801.q VLAN, IPv6, IGMP snooping and query mode as well as SNTP and SMTP.

The switch features advanced security function including SSH, SSL, RADIUS and TACACS+ authentication, PVE, ACLs as well as supports IP Source Guard to anti-fake DHCP server or illegal IP address to access the network.

With advanced SNMP and security function, LGS-2624C is the best switch to connect with IP Camera, Setup box, VoIP phone / router, Wireless Equipments for MTU, Transportation or Surveillance applications.

Lantech DNV-Type Approval LGS-2624C-DNV* model meets with the most critical test criteria in DNV Type test directives consisting of MED (Marine Equipment Directive), EMC (Electromagnetic Compatibility Directive) and LVD (Low Voltage Directive) in which vibration, high voltage, compass safe distance, salt mist tests, humidity etc are conducted to ensure the switch sustaining the harsh on-board environments often founded in Ships, Crafts and Offshore platforms.

FEATURES & BENEFITS

- **IGMP v1/v2/v3 snooping, query and proxy**
- **Port Based VLAN , Tag VLAN, GVRP**
- **Voice VLAN**
- **Port Trunk with LACP**
- **TFTP Firmware Update and System Configure**
- **9K Jumbo Frame support**
- **8K MAC address table**

- **Support IPv4 & IPv6**
- **Quality of Service**
- **Port Mirror**
- **MSTP /Spanning Tree / Rapid Spanning Tree**
- **SNMP v1, 2c and 3 with support for traps**
- **Advanced Security: SSH/SSL,ACL, IP Source Guard, PVE, Port Security**

DIMENSIONS (unit=mm)

General model
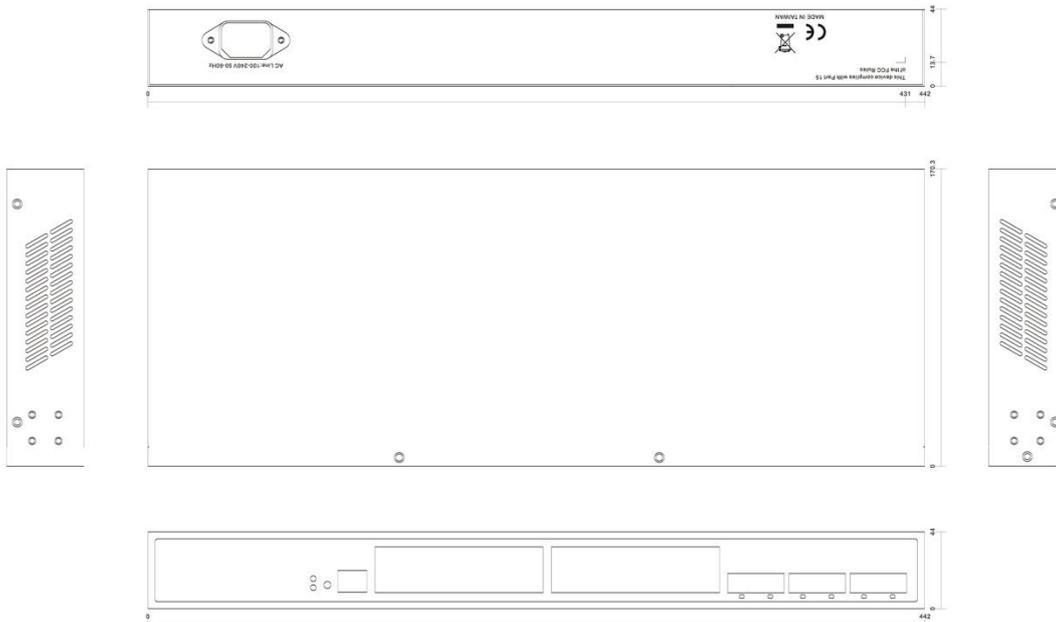
DNV model
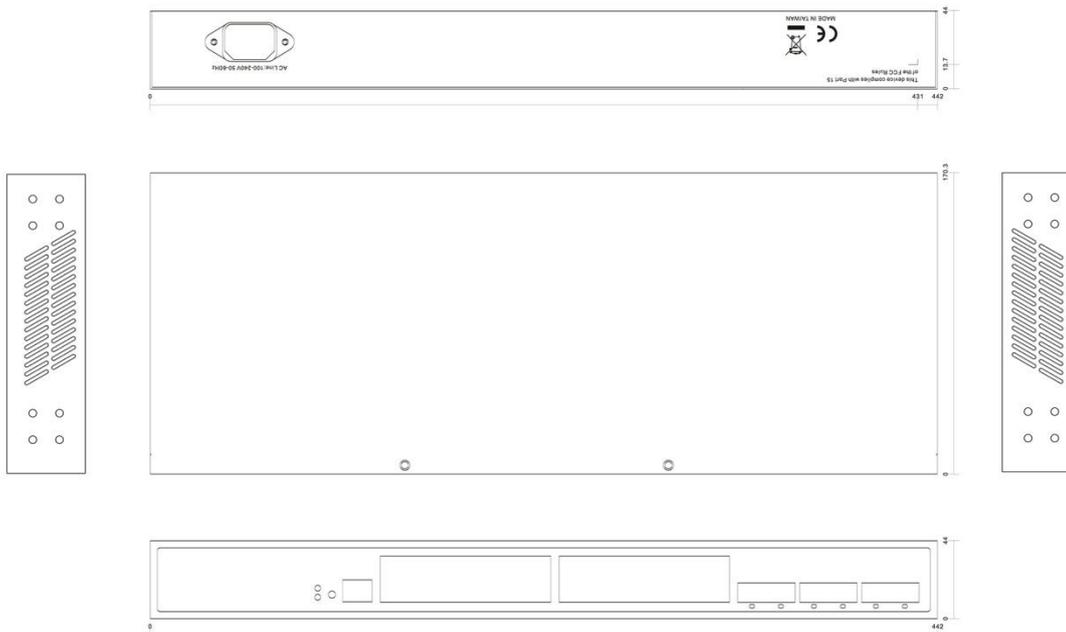
SPECIFICATION

Hardware Specification	
IEEE Standard	IEEE 802.3 10BASE-T Ethernet,
	IEEE 802.3u 100BASE-TX Fast Ethernet,
	IEEE 802.3ab 1000Base-T,
	IEEE 802.3z Gigabit Fiber,
	IEEE802.1p COS
	IEEE 802.3x Flow Control and Back-pressure

IEEE802.1x RADIUS authentication

IEEE 802.1d Spanning Tree,

IEEE 802.1w Rapid Spanning Tree,

IEEE 802.3ad Port trunk with LACP

IEEE802.3az Energy Efficient Ethernet Task Force

IEEE802.1q VLAN Tagging

IEEE802.1ab Link Layer Discovery(LLDP), LLDP

	MED
MAC Address	8K Mac address table
Jumbo frames	up to 9KB supported on Gigabit interfaces (default enabled)
Switching fabric	52 Gbps
Packet Buffer	4M bits
Power Supply	100-240 VAC 50~60 Hz, internal , universal
Power Consumption	unload 11.52W @ AC 110V 12.90W @ AC 220V 12.70W @ AC 240V full-load 21.6W @ AC 110V 22.80W @ AC 220V 22.73W @ AC 240V
Case Dimension	442mm(W) x 170.3mm (D) x44mm (H)
Operating Humidity	10%~90% (Non-condensing)
Operating Temperature	Standard: -20°C~60°C
EMI	CE, FCC Part 15 (CFR47) Class A
Warranty	2 years

Software Specification

Management	SNMPv1v2v3/ Web/ Telnet/ CLI Management
Firmware update	-Web browser upgrade (HTTP/ HTTPs) and TFTP -Upgrade through console port as well -utility to deploy the switch firmware
s-Flow	s-Flow is a modern standard-based network export protocol (RFC 3176) that addresses many of the challenges that network managers face today. By embedding s-Flow technology into network switch delivers an "always-on" technology that operates with wire-speed performance. Cost of implementation is driven down dramatically compared to traditional network monitoring solutions using mirrored ports, *probes, and line tap technologies. (The function will be released at FW v1.10 and the available schedule is August 2011*)
UPnP	The UPnP (ISO/IEC 29341) architecture allows device-to-device networking of personal computers, networked home appliances, consumer electronics devices and wireless devices. It is a distributed, open architecture and zero configurations networking protocol based on established standards such as the Internet Protocol Suite (TCP/IP), HTTP, XML, and SOAP. (The function will be released at FW v1.10 and the available schedule is September 2011*)
Port Trunk	Support for IEEE 802.3ad Link Aggregation Control Protocol (LACP) -Up to 12 groups -Up to 8 ports per group

VLAN	Support for up to 4K VLANs simultaneously (out of 4096 VLAN IDs)
	  -Port-based VLAN
	  -Tag-based VLAN
	  -MAC-based VLAN
	  -Management VLAN
	  -Private VLAN Edge (PVE)
	-GVRP / MVR

Voice VLAN	Voice traffic is automatically assigned to a voice-specific VLAN and treated with appropriate

	levels of QoS
Quality of Service	- Support 4 hardware queues (Low / Normal / Medium / Hign) - Ingress policer; egress shaping and rate control; per VLAN, per port and flow base
QoS Scheduling	Strict priority and 8,4,2,1 weight fair queue scheme Queue assignment based on DSCP and class of service (802.1p/ CoS)
Class of Service	Port based; 802.1p VLAN priority based; IPv4/IPv6 precedence/ type of service (ToS) / DSCP based; Differentiated Services (DiffServ); classification and re-marking ACLs, trusted QoS
IPV6	Web/ SSL, Telnet/ SSH, ping, Simple Network Time Protocol (SNTP), Trivial File Transfer Protocol (TFTP), SNMP, RADIUS, Syslog, DNS Client, protocol-based VLANs
IPv4 and IPv6 dual stack	Coexistence of both protocol stacks to migration
Remote Monitoring (RMON)	Embedded RMON software agent supports RMON groups 1,2,3,9 (history, statistics, alarms, and events) for enhanced traffic management, monitoring and analysis
Dual Image	Dual image provides independent primary and secondary OS files for backup while upgrading
Rate Limiter	The Rate Limiter Level from 1 to 16 that allow user to set rate limiter value and units with pps or kbps.
Energy Detect	Compliant IEEE802.3az Energy Efficient Ethernet Task Force. Automatically turns off power on Gigabit Ethernet RJ-45 port when detecting link down or Idle of client. Active mode is resumed without loss of any packets when the switch detects the link up
Cable length detection	Adjusts the signal strength based on the cable length. Reduces the power consumption for cables shorter.
Spanning Tree	Support Spanning Tree 、Rapid Spanning Tree, enabled by default Multiple Spanning Tree instances using 802.1s (MSTP)
Port Mirror	Supports TX/RX/Both packet mirror. (8 source port)
IGMP	-Supports IGMP v1/v2/v3 snooping -IGMP querier is used to support a Layer 2 multicast domain of snooping switches in the absence of a multicast router. -Support IGMP Proxy - MLD v1/v2 snooping : Deliver IPv6 multicast packets only to the required receivers
DHCP	Relay of DHCP traffic to DHCP server in different VLAN. Works with DHCP Option 82 DHCP Client/ DHCPv6 Client
SNMP	SNMP version1, 2c and 3 with support for traps, and SNMP version 3 user-based security model (USM)
SMTP	Support SMTP Server and 6 e-mail accounts for receiving event alert
SNTP	SNTP to synchronize system clock in Internet
LLDP	Traffic on a port can be mirrored to another port for analysis with a network analyzer or RMON probe. Up to 8 source ports can be mirrored to single destination port. A single session is supported.
System Log	System log record and remote system log server
Port Security	Locks MAC Addresses to ports, and limits the number of learned MAC addresses
IP security	Supports illegal IP address to access to specific port

	in the switch Support SSH/SSL
RADIUS / TACACS+	IEEE802.1X: RADIUS authentication, authorization and accounting, MD5 hash, guest VLAN , single/multiple host mode and single/multiple sessions Supports IGMP-RADIUS based 802.1X Dynamic VLAN assignment Supports RADIUS and TACACS+ authentication. Switch as a client
Storm control	Broadcast, multicast, and unknown unicast
ACLs	Support for up to 4096 entries Drop or rate limitation based on source and destination MAC, VLAN ID or IP address, protocol,

port, differentiated services code point (DSCP) / IP precedence, TCP/ UDP source and destination ports, 802.1p priority, Ethernet type, Internet Control Message Protocol (ICMP) packets, IGMP packets, TCP flag

*Optional

ORDERING INFORMATION

■ **LGS-2624C…….……………...…….…......P/N: 8370-600**
20 10/100/1000T + 4 100/1000M SFP Combo + 2 100/1000M SFP L2 Plus Managed Switch; -20°C~60°C w/ 19" rack-mount ears x2

■ **LGS-2624C-DNV….….………….…...…. P/N: 8370-600DNV**
20 10/100/1000T + 4 100/1000M SFP Combo + 2 100/1000M SFP L2 Plus Managed Switch; -20°C~70°C w/ DNV mounting ears x4

■ **MBAK-LGS-2624C-EARS**
Optional rack-mount ears for LGS-2624C-DNV