LGS-2816C-RPS

16 100/1000M SFP + 8 10/100/1000T/Dual Speed SFP Combo

L2 Plus Managed Switch w/ Redundant Power Supply

- *Single IP Stacking up to 16 switches*
- *Supports Spanning Tree / RSTP/ MSTP*
- *Supports Q-in-Q double tag VLAN,MVR*
- *Supports SSL/SSH,ACL ,TACACS+ , and IP-Mac-Port Binding for Security*
- *Support IPv6; IGMP v3 and Proxy*
- *Operating Temperature from-20°C~60°C*
- *DNV Type* Approved for Ships, Craft and Off-shore Platforms*

OVERVIEW

Lantech LGS-2816C-RPS, a 24-port Gigabit L2 Plus Managed Switch, is a standard switch that meets all IEEE 802.3/u/x/z Gigabit, Fast Ethernet specifications. The switch includes 24-Port 100/1000Mbps Dual Speed SFP Fiber interface with 8-Port Combo Gigabit TP/ (100/1000Mbps SFP) Fiber. The switch can be managed through RS-232 serial port, or through Ethernet port using CLI or Web-based management unit, associated with SNMP agent.

With the SNMP agent, the network administrator can logon the switch to monitor, configure and control each port's activity in a friendly way. The overall network management is enhanced and the network efficiency is also improved to accommodate high bandwidth applications.

In addition, the switch features comprehensive and useful functions such as QoS (Quality of Service), IPv6,Spanning Tree, VLAN, Port Trunking, Bandwidth Control, Port Security, MVR, SNMP/RMON, LLDP and IGMPv3 Snooping capability, SSL/SSH, TACACS+ via the intelligent software. It is suitable for both metro-LAN and central management applications when needs high density fiber aggregation.

The LGS-2816C-RPS supports +12VDC redundant power supply via optional connector to ensure the switch power system. The working temperature is from -20°C to 60°C where meets with the challenge of harsh environments.
It is suitable for surveillance, transportation, factory floors, etc.

Lantech DNV-Type Approval LGS-2816C-RPS-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

- **16-Port 100/1000Mbps dual speed SFP fiber interface**
- **8-Port dual media with UTP/(100/1000Mbps SFP) for flexible connection**
- **Supports Jumbo Frame size up to 9KB**
- **IEEE 802.1X Access Control improve network security**
- **Port Mirroring helps supervisor monitoring network**
- **Supports Q-in-Q(Double-tag)**
- **IEEE802.1Q tag-base VLAN, 4094 entries and port-base VLAN**
- **IEEE 802.1D Compatible, 802.1w Rapid Spanning Tree and 802.1s Multiple Spanning Tree**
- **Unknown Unicast/Broadcast/Multicast Storm Control**
- **Multicast Vlan Registration for IPTV**

- **Support IPv6**
- **IP-MAC-Port binding for security**
- **Supports QoS (QCL/QCE) for traffic control**
- **ACL based on Ethernet Type / ARP / IPv4 for packets permit or deny, rate limitation and port copy**
- **DHCP Snooping (Including DHCP Option 82)**
- **Supports IGMPv3 snooping and IGMP proxy**
- **Supports SSL/SSH for network security**
- **Supports TACACS+ for management security and authentication**
- **Supports "power saving" for Green Ethernet requirement**
- **Supports LLDP (Link Layer Discovery Protocol) provides a standards-based method for enabling switches to advertise themselves**
- **Supports Syslog for device management as well as generalized informational, analysis, and debugging messages**

SPECIFICATION

Hardware Specification

IEEE Standard	IEEE 802.3 10Base-T Ethernet IEEE 802.3u 100Base-TX Ethernet IEEE 802.3ab 1000Base-TX Ethernet IEEE 802.3z 1000Base-X Ethernet IEEE 802.3x Flow Control Capability ANSI/IEEE 802.3 Auto-negotiation IEEE 802.1Q VLAN IEEE 802.1p Class of Service IEEE 802.1X Access Control IEEE 802.1D Spanning Tree IEEE 802.1w Rapid Spanning Tree IEEE 802.1s Multiple Spanning Tree IEEE 802.3ad Link Aggregation Control Protocol (LACP) IEEE 802.1AB Link Layer Discovery Protocol (LLDP)
MAC address	8K
Switch Capacity	48Gbps
Throughput	35.712Mpps
Connector	16 100/1000M SFP and 8 dual media, RJ-45/SFP
Jumbo packet	Up to 9K
ROM	128M
DRAM	512M
Packet Buffer	1392KB
LED	**POWER** Green Lit when +12V DC power is on and good **10/100/1000Ethernet TP Port 1 to 8 LED** LINK/ACT Green Lit when connection with remote device is good Blinks when any traffic is present Off when cable connection is not good **10/100/1000Mbps** Green/Amber Lit Green when 1000Mbps speed is active Lit Amber when 100Mbps speed is active Off when 10Mbps speed is active **1000SX/LX Gigabit Fiber Port 1 ,24 LED** SFP(LINK/Speed/ACT) Green Lit when connection with the remote device is good Blinks when any traffic is present Off when module connection is not good
Power Supply	Input Voltage : 100~240V Frequency : 50~60 Hz
Redundant	12+VDC

Power	
Power Consumption	40Watt (maximum)
Case Dimension	442mm(W) x209mm (D) x44mm (H)
Weight	2900g
Operating Humidity	5%~90% (Non-condensing)
Operating Temperature	Standard: -20°C~60°C
EMI	Comply with FCC Part 15 Class A & CE Mark Approval
Warranty	2 years

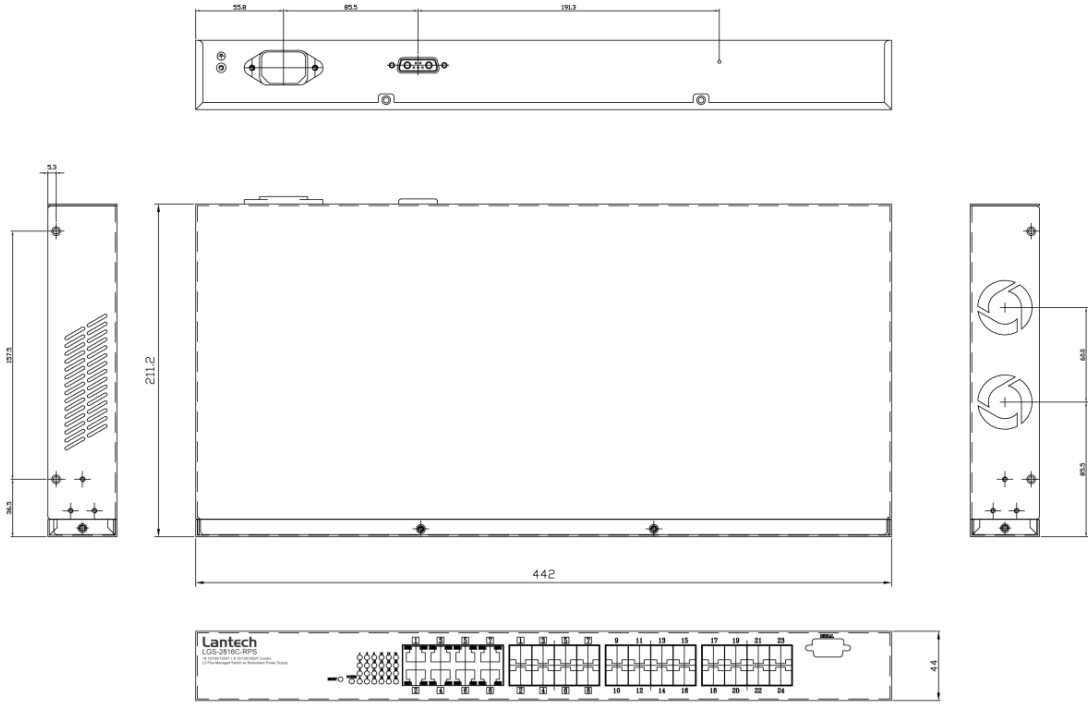
Software Specification

Management	SNMPv1,v2c,v3, Web Interface, CLI
SNMP MIB	**RFC 1213 MIB (MIB-II)** Interface MIB, Address Translation MIB, IP MIB, ICMP MIB, TCP MIB, UDP MIB, SNMP MIB **RFC 1757 RMON MIB** Statistics Group 1, History Group 2, Alarm Group 3, Event Group 9 **RFC 1493 Bridge MIB** **RFC 1643 Ethernet MIB** **Enterprise MIB**
VLAN	· Supports SVL/IVL configuration to meet your VLAN requirement · Port-base VLAN · IEEE802.1Q tag-base VLAN, up to 4k active VLANs · Supports the Q-in-Q (Double-tag) · Supports MVR (Multicast VLAN Registration)
VSM (Virtual Stacking Management)	· Up to 16 switches by single IP address · Virtual stacking, no extra stacking hardware is required · Distributed stacking, no physical central wiring closet is needed
QoS	· Supports Port Based, 802.1p and Diffserv (IPv4 /IPv6) QoS packet classification · Supports two scheduling, WRR and Strict · Supports 802.1p QoS with four level priority queue
Spanning Tree	Supports 802.1D STP/1w RSTP/1s MSTP
Port Mirror	· Support 1: N mirroring · Supports port sniffer function with Ingress and Egress
IGMP	· Supports IGMPv3 snooping including active and passive mode · Supports IGMP proxy including active and passive mode
LACP	· Port trunking with 12 trunking group

	· Up to 16 ports for each group.
Bandwidth Control	Supports bandwidth rating per port ingress and egress rate limit 500Kbps~1000Mbps with 1Kbps
GVRP/GARP	802.1Q with GVRP/ GARP
Broadcast Storm	Multicast/Broadcast/Unknown-Unicast Storm suppression
Network Security	· 802.1X access control for port based and MAC based authentication · Management Access Policy Control

	· Access Control List · IP-MAC-Port binding · DHCP snooping and DHCP option 82 · SSL/ SSH for Management · TACACS+ for Management Authentication

DIMENSIONS (unit=mm)



ORDERING INFOMATION

- **LGS-2816C-RPS……..…….....P/N: 8370-900**

  16 100/1000M SFP + 8 10/100/1000T/Dual Speed SFP Combo L2 Plus

  Managed Switch w/ Redundant Power Supply ; -20°C~60°C

- **LGS-2816C-RPS-DNV……..…….....P/N: 8370-900DNV**

  16 100/1000M SFP + 8 10/100/1000T/Dual Speed SFP Combo L2 Plus

  Managed Switch w/ Redundant Power Supply ; -20°C~70°C

OPTIONAL ACCESSORIES

ECON002816 ECON for Redundant Power Supply

Mini GBIC (SFP)

- **8330-162** MINI GBIC 1000SX (LC/0.5km) Transceiver
- **8330-163** MINI GBIC 1000SX2 (LC/2km) Transceiver
- **8330-165** MINI GBIC 1000LX (LC/10km) Transceiver
- **8340-0591** MINI GBIC 1000LHX (LC/40km) Transceiver
- **8330-166** MINI GBIC 1000XD (LC/50km) Transceiver
- **8330-169** MINI GBIC 1000XD (LC/60km) Transceiver
- **8330-167** MINI GBIC 1000ZX (LC/80km) Transceiver
- **8330-170** MINI GBIC 1000EZX (120km) Transceiver
- **8330-168** MINI GBIC 10/100/1000T (100m) Transceiver
- **8330-060** 100Base FX 2KM, Multi-mode, LC Transceiver
- **8330-065** 100Base FX 5KM, Multi-mode, LC Transceiver
- **8330-061** 100Base LX 30KM, Single-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

Lantech Communications Global Inc.

www.lantechcom.tw
info@lantechcom.tw