

# LGS-2207C

## 7 10/100/1000T + 2 10/100/1000T/1000M SFP Combo Managed Switch

- Pro-Ring covering X-Ring, Couple Ring, and Dual Homing Topology
- X-Ring provides recovery time < 10ms up to 250 units in one Ring
- SNMP v1, v2c, v3/ Web/ Telnet/ CLI Management
- Supports QoS & CoS



## OVERVIEW

Lantech LGS-2207C is a full Gigabit speed network management switch with 7-port 10/100/1000T + 2-port 10/100/1000T/ 1000M SFP Combo. With wide power supply input from AC 100 to 240V and rack mountable design, users are able to install it easily and conveniently.

LGS-2207C supports DHCP server, relay and client function, which can manually configure a specific IP address, or direct the device to obtain an IP address from the network. It also supports Quality of Service (QoS), which adjusts the network traffic priority, for example, video and voice packets as high priority, in which it supports 4 priority queues with Cos (Class of

Service) standard. The Internet Group Management Protocol (IGMP Query & Snooping) manages the multi-cast packet application in the network without congest the network, for on-line study or video conference applications.

LGS-2207C supports Lantech patent-pending feature "Pro-Ring", which covers X-Ring, Dual Homing, and Couple Ring. X-Ring enables auto-network-recovery in less than 10 ms when connects up to 250 units in one X-Ring group. With several management options such as SNMP v1, v2c, v3, Web, Telnet, CLI, and Menu Driven, LGS-2207C is the best choice for small to large enterprise and campus network.

## FEATURES & BENEFITS

- **System Interface/Performance**
  - RJ-45 port support Auto MDI/MDI-X Function
  - Store-and-Forward Switching Architecture
  - Back-plane (Switching Fabric): 18Gbps
  - 1Mbits Packet Buffer
  - 8K MAC Address Table
- **VLAN**
  - Port Based VLAN
  - Supports 802.1 Q Tag VLAN
  - GVRP
  - Double Tag VLAN (Q in Q)\*
  - Private VLAN\*\*
- **Port Trunk with LACP**
- **QoS (Quality of Service)**
  - Supports IEEE 802.1p Class of Service
  - Per port provides 4 priority queues
  - Port Base, Tag Base and Type of Service Priority
- **Port Mirror: Monitor traffic in switched networks**
  - TX Packet only
  - RX Packet only
  - Both of TX and RX Packet
- **Security**
  - Port Security: MAC address entries/filter
  - IP Security: IP address security management to prevent unauthorized intruder
  - Login Security: IEEE802.1X/RADIUS
- **IGMP with Query mode for Multi Media Application**
- **Supports Spanning Tree and Rapid Spanning Tree**
- **Pro-Ring**
  - X-ring, Dual Homing, and Couple Ring Topology
  - Provides redundant backup feature and the recovery time below 10ms
- **Bandwidth Control**
  - Ingress Packet Filter and Egress Rate Limit
  - Broadcast/Multicast Packet Filter Control
- **System Event Log**
  - System Log Server/Client
  - SMTP e-mail Alert
- **SNMP Trap**
  - Device cold start
  - Authentication failure
  - X-ring topology changed
  - Port Link up/Link down
  - Power Status
- **TFTP Firmware Upgrade and System Configuration Restore and Backup**

**SPECIFICATION**

Hardware Specification	
IEEE Standard	IEEE802.3 10BASE-T IEEE802.3u 100BASE-TX IEEE802.3z Gigabit fiber IEEE802.3ab 1000Base-T IEEE802.3x Flow control and Back pressure IEEE802.3ad Port trunk with LACP IEEE802.1d Spanning tree protocol IEEE802.1w Rapid spanning tree IEEE802.1p Class of service IEEE802.1Q VLAN Tagging IEEE 802.1x User Authentication
Switch Architecture	Back-plane (Switching Fabric): 18Gbps Packet throughput ability(Full-Duplex): 26.7Mpps @64bytes
Transfer Rate	14,880pps for Ethernet port 148,800pps for Fast Ethernet port 1,488,000pps for Gigabit Ethernet port
Packet Buffer	1Mbits for packet buffer
MAC Address	8K MAC address table
Flash ROM	4Mbytes
DRAM	32Mbytes
Connector	10/100/1000TX: 7 x RJ-45 with Auto MDI/MDI-X function SFP fiber: 2 x Mini-GBIC socket Console port: RS-232 connector
Network Cable	10Base-T: 2-pair UTP/STP Cat. 3, 4, 5, 6 cable EIA/TIA-568 100-ohm (100m) 100Base-TX: 2-pair UTP/STP Cat. 5/5E/6 cable EIA/TIA-568 100-ohm (100m)
Optical Cable	LC(Multi-mode): 50/125um~62.5/125um LC(Single mode): 9/125um Available distance: 2KM (Multi-mode)/30KM (single-mode) Wavelength: 1310nm (multi-mode/ single mode)
Protocol	CSMA/CD
LED Indicators	Per unit: Power (Green) Per port: Link/Activity (Green), speed 1000(Green) Mini GBIC: Link/Activity (Green)
Power Supply	AC 100~240V, 50/60Hz
Power Consumption	12 Watts
Operating Humidity	5% to 95% (Non-condensing)
Operating Temp.	0°C ~ 60°C
Storage Temp.	-40°C ~ 70°C
Case Dimensions	217mm(W) x 140mm(D) x 43mm(H)
Fan Number	1
Installation	10' Rack Mountable
EMI	FCC Class A, CE
Safety	UL, cUL, CE/EN60950-1
Warranty	2 years
Software Specification	
Management	SNMP v1, v2c, v3/Web/Telnet/CLI/Menu Driven**
SNMP MIB	RFC 1215 Trap, RFC1213 MIBII, RFC 1157 SNMP MIB, RFC 1493 Bridge MIB, RFC 2674 VLAN MIB,
	RFC 1643 , RFC 1757, RSTP MIB, Private MIB
VLAN	Port Based VLAN IEEE 802.1Q Tag VLAN (256 entries)/ VLAN ID (Up to 4K, VLAN ID can be assigned from 1 to 4096.) GVRP (256 Groups) Double Tag VLAN (Q in Q)* Private VLAN**
Port Trunk with LACP	LACP Port Trunk: 4 Trunk groups/Maximum 4 trunk members
Spanning Tree	IEEE802.1d Spanning tree IEEE802.1w Rapid spanning tree
X-Ring	Supports X-ring, Dual Homing, and Couple Ring Provides redundant backup feature and the recovery time below 10ms
Quality of Service	The quality of service determined by port, Tag and IPv4 Type of service, IPv4/ IPv6Different Service
Class of Service	Supports IEEE802.1p class of service, per port provides 4 priority queues
Port Security	Supports 100 entries of MAC address for static MAC and another 100 for MAC filter
Port Mirror	Support 3 mirroring types: RX, TX and Both packet
IGMP	Supports IGMP snooping v1,v2 256 multicast groups and IGMP query
IP Security	Supports 10 IP addresses that have permission to access the switch management and to prevent unauthorized intruder
Login Security	Supports IEEE802.1X Authentication/RADIUS
Bandwidth Control	Supports ingress packet filter and egress packet limit The egress rate control supports all of packet type and the limit rates are 100K ~ 250Mbps Ingress filter packet type combination rules are Broadcast/Multicast/Unknown Unicast packet, Broadcast/Multicast packet, Broadcast packet only and all of packet. The packet filter rate can be set from 100k to 250Mbps
Flow Control	Supports Flow Control for Full-duplex and Back Pressure for Half-duplex
System Log	Supports System log record and remote system log server
SMTP	Supports SMTP Server and 6 e-mail accounts for receiving event alert
SNMP Trap	Up to 3 Trap stations Cold start, Port link up, Port link down, Authentication Failure, Private Trap for power status, X-ring topology change
DHCP	Provides DHCP Client/ DHCP Server/ IP Relay functions
DNS	Provides DNS client feature and supports Primary and Secondary DNS server
SNTP	Supports SNTP to synchronize system clock in Internet
TFTP	Supports TFTP firmware update, TFTP configuration backup and restoration

\*Future Release  
\*\*Optional

**ORDERING INFORMATION**

- **LGS-2207C.....P/N: 8370-800**  
7 10/100/1000T + 2 10/100/1000T/1000MSFP Combo Managed Switch

**OPTIONAL ACCESSORIES**

**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 1000EZ (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)

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