

## CL-SWG-1002 L2 - 8X 10/100/1000 copper + 2X 100/ 1G SFP SLOT DD ipv6 ready

### DESCRIPTION

CL-SWG-1002 is a cost-effect high performance L2 Ethernet management switch - 8\* 10/100/1000Mbps TX ports and 2\* SFP ports are supported. This switch supports remote management by SNMP, Http and Telnet interfaces, and local management by console interface. CL-SWG-1002 supports lots of L2 switch management functions, e.g. 802.1Q VLAN, 802.1x Port Security, Rate Control, Port Configuration, Port Mirroring, Port Statistics, QoS functions, ... etc. Auto-MDIX function is supported for every TX port of the switch for easy cable connection.



### Features

- 8\* RJ45 ports, with 10/100/1000Mbps, Full/Half duplex auto-negotiation and Auto-MDIX functions
- 2\* Dual Speed SFP sockets, Port9 and Port10
- CISCO-like command line interface
- IPv6 management
- 8 priority queues are supported on each port for QoS application
- Port-based VLAN, 802.1Q VLAN and Private VLAN
- Protected port and LoopBack Detection function
- Q-in-Q(double tagging) function
- IEEE 802.1x security function, and VLAN assignment, Guest VLAN functions
- Static Mac address access limit and Dynamic Mac address number on port
- IEEE802.1d & 802.1w & 802.1s
- IP Multicast with IGMP snooping / query / fast leave / filtering /group limited /MVR
- DHCP Client / DHCP Option 82 Relay / DHCP Snooping function
- ACL function for L2 ~ L4 packet control
- Ingress/Egress rate control on port
- Broadcast/Multicast/Unicast storm control
- ARP inspection / IP source guard
- RMON 1,2,3,9
- SFP Transceiver DDMI function((Phase 2)) / Dual Speed SFP Ports(100/1000Mbps)
- Remote port configuration setting and statistics monitoring
- Text configuration download and upload
- IEEE 802.3az power management / FANless / Green Ethernet



Items	Specifications
10/100/1000 BASE-T	8
100/1G SFP Slot	2 (Port 9, Port 10), support DD SFP transceiver
CPU	416MHz MIPS 24KEc CPU as the main processor which integrated on switch controller
Memory	Flash : SPI 16MB / RAM:DDRII 128MB
Packet buffer	512KB
MAC Table size	8K
Max Packet Size	9600 Bytes
Switching capability	14880pps at 10Mbps, 148810pps at 100Mbps, 1488095pps at 1Gbps with 64 bytes packets.
Switch capacity	20Gbps
Forwarding Rate	14.8Mpps
FAN Design	FAN less
Console port	D-Sub 9
19" Rack-Mount	Yes, with kits( <b>Optional</b> )
SFP DDMI	Yes(Phase 2)
Dimension	250(W) x 117(D) x 37(H) mm
Environmental Temperature	Operating: 0 ~ 50°C Storage: -40 ~ 70°C
Humidity	10% ~ 90% (non-condensing)
LED Display	Per Port : Link/Act (Green: Gigabit, Yellow :10/100 M) Per Device : Power, System
Power Consumption	8.5 Watt Max.
Power Input	AC Power input (100V~240V)



Port Control	<p>Port speed, duplex mode, and flow control</p> <p>Port frame size (jumbo frames), Maximum ingress frame size (9600 bytes)</p> <p>Port state (administrative status)</p> <p>Port status (link monitoring)</p> <p>Port statistics (MIB counters)</p> <p>Port VeriPHY (cable diagnostics)</p> <p>Power Control</p>
L2 Switching	<p>Auto MAC address learning/aging and MAC addresses (static)</p> <p>IEEE 802.1Q static VLAN, Private VLAN, Port isolation, Port Based VLAN</p> <p>IEEE 802.1ad Provider Bridge</p> <p>IEEE 802.1D STP/802.1w RSTP/802.1s MSTP</p> <p>IEEE 802.3ad Link Aggregation, static and LACP</p> <p>BPDU guard and restricted role, BPDU transparency</p> <p>DHCP client, DHCP snooping, DHCP option 82 relay</p> <p>ARP inspection</p> <p>Port mirroring</p> <p>IP MAC binding</p>
Layer 2 Multicast	<p>IGMPv2, v3 snooping, (1024 groups)</p> <p>IGMP throttling, filtering, and leave proxy</p> <p>MVR</p>
QoS	<p>8 Priority Queues per Port</p> <p>Port Based priority</p> <p>Scheduler priority</p> <p>QoS Control List</p> <p>Storm control for UC, MC, and BC</p> <p>Policing and shaping per port and per queue</p> <p>Ingress Policing :</p> <p>(100-1000000 when the "Unit" is "kpbs" or "fps" and 1-3300 when the "Unit" is "Mbps" or "kfps")</p> <p>Egress Shaping :</p> <p>(100-1000000 when the "Unit" is "kpbs", and 1-3300 when the "Unit" is "Mbps".)</p> <p>DiffServ (RF 2474) remarking</p> <p>Tag remarking</p>
Security	<p>Port-based 802.1X, Single 802.1X, Multiple 802.1X</p> <p>MAC-based authentication, VLAN assignment, QoS assignment,</p> <p>Guest VLAN</p> <p>RADIUS accounting                      Authorization ( 15 levels)</p> <p>MAC address limit</p> <p>TACACS+                                      Web and CLI authentication and authorization</p>



	ACLs for filtering(256 entries), policing, and port copy IP source guard
Synchronization	NTPv4 Client
Power Saving	ActiPHY, PerfectReach Ethernet Energy Efficient power management(EEE)
SFP DDMI	Yes(Phase 2)
Management	HTTP server CLI console port Telnet Management access filtering SSHv2 and HTTPS IPv6 Management System Syslog Software download through Web SNMPv1/v2c/v3 Agent RMON Group 1, 2, 3, and 9 IEEE 802.1AB-2005 Link Layer Discovery, LLDP Text Configuration download or upload sFlow

**System IO**

	System	IO
Power	Lights(Green)	System is receiving power.
System	Lights(Green)	System is ready
Link	Lights	Link is ready 1000Mbps : Green 10/100Mbps : Amber
	Flashing	Data packets being received or sent.

**System IO**

- One Switch
- One AC power cord
- One console cable
- Two rack-mount kits and screws(**Optional**)
- CD-ROM User's manual
- Rubber feet

