



Model: GS1016ES2

16-Port Gigabit Light-Managed Switch with 2 SFP

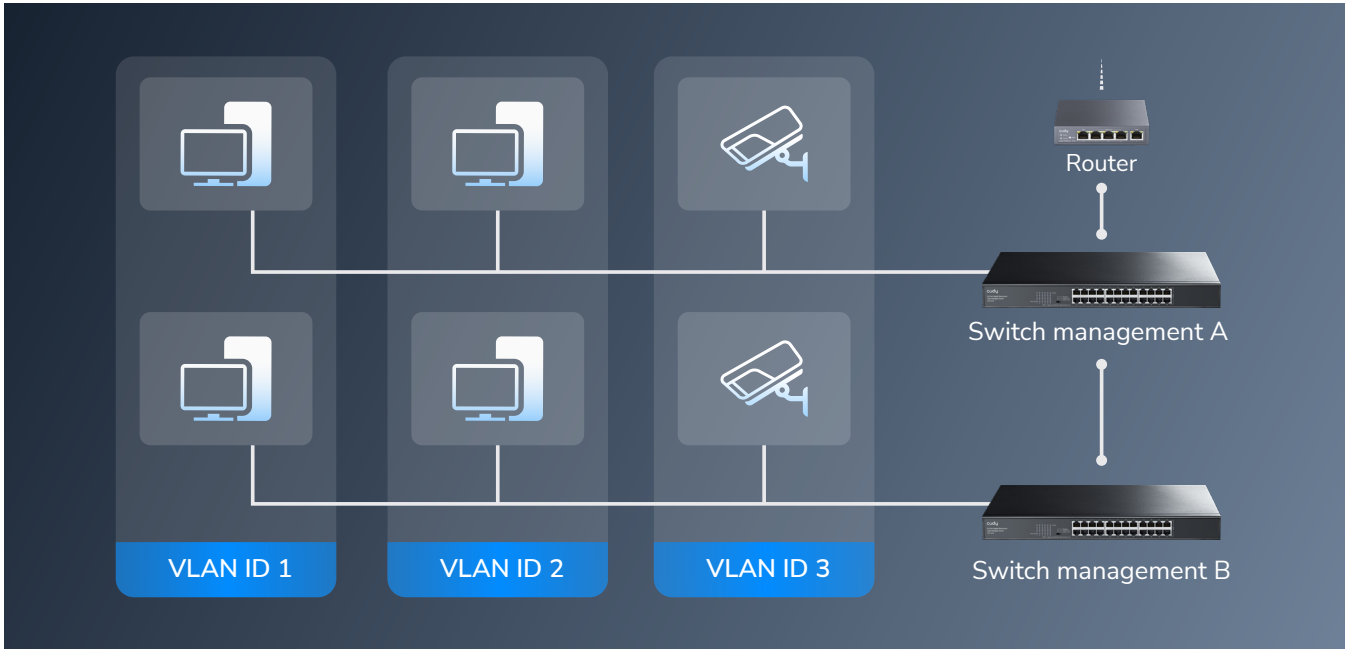
Web Management
VLAN | QoS | Port Trunk



Datasheet

Essential Managment Features

A software features introduction to Cudy Light-Managed Switches. The actual port number varies



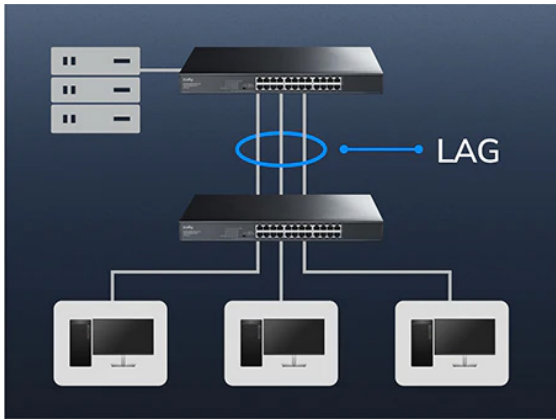
802.1Q/MTU/Port-Based/Voice VLAN

802.1Q VLANs allows creating secure and high-performance network segments across different managed switches. The other MTU/Port-Based VLAN enable simpler local VLAN configuration.



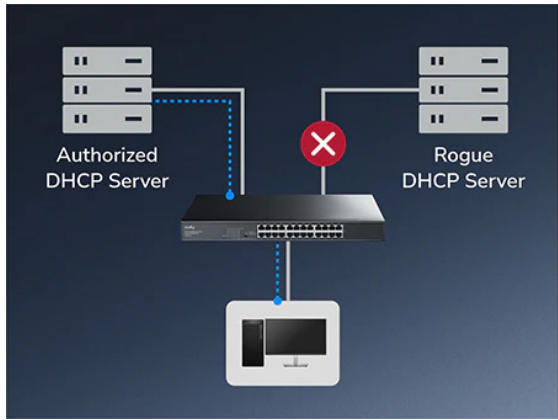
DSCP/802.1p/Port-Based QoS

DSCP/802.1p QoS identifies DSCP packets in the tranmission and prioritize those latency-sensitive data.



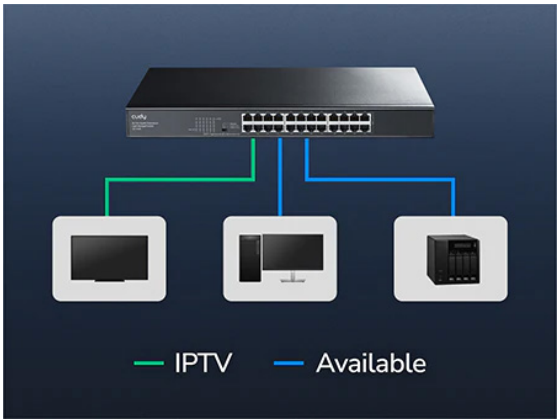
Link Aggregation

Allows creating multiple LAG groups and multiply the transmission speed of the backbone in your networks.



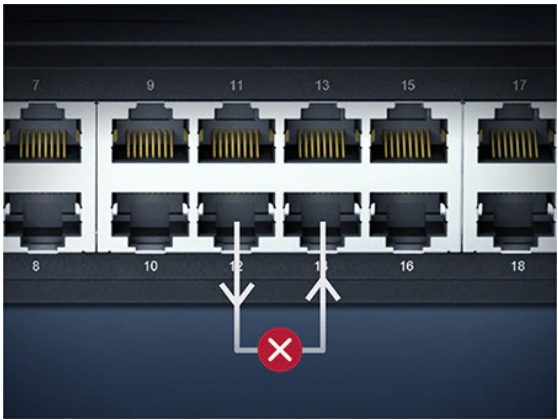
DHCP Snooping

Assign an authorized DHCP server to prevent downtime when other rogue DHCP server connects into the network.



IGMP Snooping

Identifies the multicast groups connected to the switch and sends data to the exact ports instead of broadcasting them.



Loop Prevention

STP/RSTP improve performance and cut loop automatically with other managed switches. Basic Loop Prevention kicks in if STP/RSTP is inactive.



Highlights

A 19 inch, 16-GbE, 2-SFP switch with management features.

- 16× Gigabit RJ45 Ethernet Ports
- 2× 1.25G SFP Slots
- Web Management, SNMP
- VLAN (802.1Q/MTU/Voice/Port-Based)
- QoS (802.1p/DSCP/Port-Based)
- Port Mirror, Static Aggregation, etc
- STP/RSTP and Loop Prevention
- DHCP Snooping, IGMP Snooping
- EEE (802.3az Power Saving)
- Desktop, Rack-Mount
- 440×180×44 mm (17.32×7.09×1.73”)

Package Content

- GS1016ES2
- Power Cord
- Mounting Kit
- Installation Guide

Hardware Specs

Interfaces	Gigabit RJ45 Ports	16
	Gigabit SFP Slots	2
	Extend Mode Ports	Configurable
	VLAN Mode Ports	Configurable
	LED	Power Link/ACT of Each Ethernet Port
Performance	Power Input	AC
	Copper Speed and Distance	Cat. 3 or higher cable: 100 meters at 10 Mbps
		Cat. 5 or higher cable: 100 meters at 100 Mbps
		Cat. 5e or higher cable: 100 meters at Gigabit
		Cat. 5e or higher cable: 250 meters at 10 Mbps
	Copper Speed and Distance Note	250-meter transmission is available when the port speed is set at 10 Mbps in the software.
	Optical Spec and Distance	Depends on the installed Optical Module
	MAC Address Table	8192
	Max Switching Capacity	36 Gbps
	Max Forwarding Rate	26.78 Mpps
Power	Jumbo Frame	15 KB
	Packet Buffer	4 Mbit
	Power Saving	EEE Supported
	Power Methods	AC
AC		100-240V 50/60Hz



Hardware Specs

Reliability	Grounding Methods	Three-Prong Plug
		EMS
		IEC/EN 61000-4-2, Level 3 ESD:
		Contact: 6kV; Air: 8kV
		IEC/EN 61000-4-5, Level X Surge:
		Power: DM 4kV, CM 4kV; RJ45: CM 6kV
	Environment	Operating Temperature:
		0 °C ~ 40 °C (32 °F ~104 °F)
		Storage Temperature:
		-40 °C ~ 70 °C (-40 °F ~ 158 °F)
		Operating Humidity:
Mechanical	Dimension	10% ~ 90% non-condensing
		Storage Humidity:
		5% ~ 90% non-condensing
	Casing Material	440×180×44 mm
		17.32×7.09×1.73 inches
	Installation	Metal
		Desktop
		Rackmount via Brackets
Ordering Information	Retail Package Dimension	487×267×84 mm
		19.17×10.51×3.31 inches
	Units per Carton	5
	Carton Dimension	50×44×28.5 cm
		19.69×17.32×11.22 inches

Switching	802.3 Protocols	802.3x Flow Control
		802.3i 10BASE-T
		802.3u 100BASE-T
		802.3ab 1000BASE-T
		802.3az Power Saving
	802.1 Protocols	802.1d: STP
		802.1w: RSTP
		802.1p: LAN Layer 2 QoS/CoS
		802.1q: VLAN Bridge Operation
		802.1ab: LLDP/LLDP-MED
	Port Management	Port On/Off
		Port Negotiation Speed
		Port Trunk (Static Aggregation)
		Port Mirror
		Data Rate Limit
		Jumbo Frame Settings
		Storm Control
		Traffic Monitor
		MAC Address Management
		EEE (802.3az)
	Port Trunk Groups	4
	Max Port per Port Trunk Groups	8



Hardware Specs

Switching	L2 Features	IGMP Snooping
		Loop Prevention
		DHCP Snooping
		STP/RSTP
		LLDP Config and Neighbors
		MTU VLAN
		Port-Based VLAN
		802.1Q VLAN
		Voice VLAN
		DSCP QoS
		802.1p QoS
		Port-Based QoS

System	Control Methods	WEB Management
		SNMP V1/V2
		Firmware Upgrade
		Local Upgrade
		Reliability
		Backup and Restore
		Diagnostic Tools
		Cable Status/Length Diagnosis
		Ping
		Languages
		English
		Bengali
		German
		Spanish
		French
		Portuguese
		Russian
		Arabic
		Indonesian
		Hindi
		Urdu
		Traditional Chinese
		Simplified Chinese