

OP-MEN 99524B

20-Port 100/1000M SFP + 4-Port TP/(100/1000M)SFP GbE L2 Plus Managed Switch



Overview:

OP-MEN 99524B L2+ Managed Switch is a next-generation Fiber Switch offering full suite of L2 features including advanced features such as Static Route that delivers the better cost performance and lower *total cost of ownership* in Enterprise networks or backbone via fiber or copper connections.

OP-MEN 99524B delivers 20 GbE SFP ports, 4 Combo GbE RJ45/SFP ports and DB9 Console port built-in AC power supply and battery backup power supply. OP-MEN 99524B provides front access to all data and management ports, and a compact form factor that facilitates desktop, wall-mount, or rack-mount installations.

OP-MEN 99524B is ideal to deliver management simplicity, better user experience, and lowest total cost of ownership. The free embedded Device Managed System is designed to be extremely easy-to-use/manage/install IP Phone, IP Cam, or Wifi-AP for Enterprise Applications.

Features:

- > L2+ Managed features provide easier manageability, robust security and QoS.
- Built in Device Management System (DMS).
- AC/DC Dual Power Supply.
- DHCP Server.
- Supports IPv4/IPv6 static route.
- > IEEE 802.3az EEE Energy Efficient Ethernet standard for green Ethernet.

Benefits:

Feature-rich Ethernet Switch for Enterprise-class

The switch delivers advanced functionality in L2+ managed switch including static route, DHCP server, IPv6 support, LLDP, etc. It also has comprehensive security features such as IP source guard, Access Control List guard your network from unauthorized access.

It helps users to build on the market-leading price/performance with L2+ Managed GbE fiber switch, and provide secure, reliable and ease of use for enterprise and SMB deployments.



Easy to Install, Configure and Troubleshoot by Device Management System

The DMS provides embedded functions to facilitate devices management at anytime and anywhere. Its user-friendly interface helps users to manage devices intuitively.

It supports various IP device types (e.g. IP-phone, IP-camera, WiFi-AP) for end users to enhance manageability and save time/cost during installation/maintenance stages.

• Lower Total Cost of Ownership (TCO) with Energy-efficient Design

It is designed to help customers to reduce power consumption and lower the TCO by Energy Efficient Ethernet (IEEE 802.3az) features. It can be used for customers to build a green Ethernet networking environment.

AC/Battery Backup Dual Power Supply

Power failover when power supplies are connected to different circuits. Reduce network operating risk.

Product Specifications:

Port Configuration

Total Ports	SFP (100M/1G)	Uplinks (100M/1G)	Console
24	20	4 RJ45/SFP Combo	DB9

Hardware Performance

Fo	orwarding Capacity	Switching Capacity	Mac Table	Jumbo Frames
	35.712 Mpps	48 Gbps	32 K	10056 Bytes

Environmental Range

Operating Temperature		Storage Temperature		Altitude	
Fahrenheit	Centigrade	Fahrenheit	Centigrade	Feet	Meters
32 to 140	0 to 60	-40 to 185	-40 to 85	< 10000	< 3000

Dimension, Weights, Humidity

Dimension (WxHxD)		Weight		Operating Humidity	
Millimeter	Inches	Kilograms	Pounds	Operating numbers	
442 x 44 x 211	17.4 x 1.73 x 8.31	3.1	6.8	10% to 90% non-condensing	



Voltage and Frequency

Input Voltage and Frequency	
AC Voltage	100-240 VAC
AC Frequency	50-60 Hz
DC Battery Power	12 VDC

Certification

Electromagnetic Emissions (EMC)	
CE, FCC Part 15 Class A	

Software Features

Layer 2 Switching			
Spanning Tree Protocol (STP)	 Standard Spanning Tree 802.1d Rapid Spanning Tree (RSTP) 802.1w Multiple Spanning Tree (MSTP) 802.1s 		
Trunking	 Link Aggregation Control Protocol (LACP) IEEE 802.3ad Up to 12 groups Up to 4 ports per group 		
VLAN	Supports up to 4K VLANs simultaneously (out of 4096 VLAN IDs) Port-based VLAN 802.1Q tag-based VLAN MAC-based VLAN Management VLAN Private VLAN Edge (PVE) Q-in-Q (double tag) VLAN Voice VLAN GARP VLAN Registration Protocol (GVRP)		
DHCP Relay	 Relay of DHCP traffic to DHCP server in different VLAN. Works with DHCP Option 82 		
IGMP v1/v2/v3 Snooping	IGMP limits bandwidth-intensive multicast traffic to only the requesters. Supports 1024 multicast groups		
IGMP Querier	IGMP querier is used to support a Layer 2 multicast domain of snooping switches in the absence of a multicast router		
IGMP Proxy	IGMP snooping with proxy reporting or report suppression actively filters IGMP packets in order to reduce load on the multicast router		
MLD v1/v2 Snooping	Delivers IPv6 multicast packets only to the required receivers		



Device Management System (DMS)			
	 Topology view: Support intuitive way to configure and manage switches and devices with visual relations 		
Graphical Monitoring	 Floor view: It's easy to drag and drop PoE devices and help you to build smart workforces 		
	 Map view: Enhance efficiency to drag and drop devices and monitor surroundings on Google map 		
Find my Switch	Search your real switches quickly and manage directly.		
Traffic Monitoring	Display visual chart of network traffic of all devices and monitor every port at any time from switches		
Trouble Shooting	 Network diagnostic between master switch and devices Support protection mechanism, such as rate-limiting to protect your devices from brute-force downloading 		

Layer 3 Switching		
IPv4 Static Routing	IPv4 Unicast: Static routing	
IPv6 Static Routing	IPv6 Unicast: Static routing	
Security		
Secure Shell (SSH)	SSH secures Telnet traffic in or out of the switch, SSH v1 and v2 are supported	
Secure Sockets Layer (SSL)	SSL encrypts the http traffic, allowing advanced secure access to the browser-based management GUI in the switch	
IEEE 802.1X	 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 	
Layer 2 Isolation	PVE (also known as protected ports) provides L2 isolation between	
Private VLAN Edge	clients in the same VLAN. Supports multiple uplinks	
Port Security	Locks MAC addresses to ports, and limits the number of learned MAC address	
IP Source Guard	Prevents illegal IP address from accessing to specific port in the switch	
RADIUS/ TACACS+	Supports RADIUS and TACACS+ authentication. Switch as a client	
Storm Control	Prevents traffic on a LAN from being disrupted by a broadcast, multicast, or unicast storm on a port	
DHCP Snooping	A feature acts as a firewall between untrusted hosts and trusted DHCP servers	
ACLs	 Supports up to 512 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 		
	TCP flag		
Quality of Service			
Hardware Queue	Supports 8 hardware queues		
Cabadulina	Strict priority and weighted round-robin (WRR)		
Scheduling	Queue assignment based on DSCP and class of service		
	Port based		
	802.1p VLAN priority based		
Classification	IPv4/IPv6 precedence / DSCP based		
	Differentiated Services (DiffServ)		
	Classification and re-marking ACLs		
	Ingress policer		
Rate Limiting	 Egress shaping and rate control 		
	Per port		
Management			
DHCP Server	Support DHCP server to assign IP to DHCP clients		
Direct Server	Embedded RMON agent supports RMON groups 1,2,3,9 (history,		
Remote Monitoring	statistics, alarms, and events) for enhanced traffic management,		
(RMON)	monitoring and analysis		
Doub Minnonia s	Traffic on a port can be mirrored to another port for analysis with a		
Port Mirroring	network analyzer or RMON probe. Up to N-1 (N is Switch's Ports) ports		
	can be mirrored to single destination port. A single session is supported.		
	The Universal Plug and Play Forum, an industry group of companies		
UPnP	working to enable device-to-device interoperability by promoting		
	Universal Plug and Play		
	The industry standard for monitoring high speed switched networks. It		
s-Flow	gives complete visibility into the use of networks enabling performance		
31100	optimization, accounting/billing for usage, and defense against security		
	threats		
	 Used by network devices for advertising their identities, 		
IEEE 802.1ab (LLDP)	capabilities, and neighbors on an IEEE 802ab local area network		
	Support LLDP-MED extensions		
Wah Cillian C	Built-in switch configuration utility for browser-based device		
Web GUI Interface	configuration		
CLI	For users to configure/manage switches in command line modes		
Dual Image	Independent primary and secondary images for backup while upgrading		
	SNMP version1, 2c and 3 with support for traps, and SNMP version 3		
SNMP	user-based security model (USM)		



OP-MEN 99524B Datasheet

Firmware Upgrade	Web browser upgrade (HTTP/ HTTPs) and TFTP Hagged a through console port or well		
	Upgrade through console port as well		
NTP	Network Time Protocol (NTP) is a networking protocol for clock		
	synchronization between computer systems over packet-switched		
	HTTP/HTTPs; SSH		
	DHCP Client/ DHCPv6 Client		
	Cable Diagnostics		
Other Management	Ping		
	Syslog		
	Telnet Client		
	IPv6 Management		