

MEN-4210

Managed Layer 2 Access Ethernet Switch

8-port 10/100Base-TX, 1-slot Gigabit, 1-slot Multi-rate Gigabit SFP



Description

The MEN-4210 is an entry level access switch designed to deliver power and reliability in one cost-effective equipment, a scalable and future-proof network solution to fit the requirements of home and small businesses. Providing the ideal combination of affordability and excellent switching capabilities, the MEN-4210 helps you create an efficient network at relatively low cost. Built with powerful chipset and richly equipped with much improved software features, the switch delivers maximum performance and enables service providers to operate their network more efficiently.

Designed with 8 downlink copper ports that deliver 10/100Mbps speeds, the MEN-4210 is a perfect low cost solution for service providers who want to offer high-value Ethernet services for low density subscriber base with medium ARPUs. Equipped with 1-Multirate SFP and 1-Gigabit SFP uplinks, the MEN-4210 provides deployment flexibility catering to the needs of growing networks. Service providers using the switch can initially use 100Mbps uplink and later simply change SFP modules to provide Gigabit uplinks, and fulfil their subscribers' demands for higher bandwidth.

Features Highlight

Last-mile Investment Protection

It is critically important for ISPs to protect their last-mile infrastructure from device thefts to avoid delays in delivering network services and loss of your investment. Focusing on this on-field hassle, the MEN-4210 is designed with Device Lock feature, a feature that locks your device to your network. By enabling Device Lock feature, the switch will not function in any network other than its configured network. This innovative feature of the MEN-4210 reduces device thefts and provides a continuous network connectivity saving your infrastructure investments.

Stable and Reliable Device Operations

A sudden power surge puts extra strain on the components of the switch, wearing it down over time and resulting in increased network down time. Built with increased level of surge protection, the MEN-4210 features surge protector function on each port and protects the ports and as well as device from surges entering through LAN cables. Thus, the MEN-4210 ensures stable and reliable device operations even in unstable power conditions, and prevents sudden network down time protecting your infrastructure investments and avoiding unnecessary operational expenditure.

Comprehensive QoS Mechanisms to Assign Priority

Network applications need different levels of services delivered to them reliably without any transmission delays and interruptions. The MEN-4210 has comprehensive QoS mechanisms that assign priority to applications and send only specific dedicated traffic to them. In addition, bandwidth management functions of the switch allocate greater bandwidth for mission-critical communications. With increased control, administrators can prevent unpredictable errors and utilize the bandwidth more effectively.

Enhanced Control and Security

Built with enhanced defence mechanisms, the MEN-4210 delivers robust security. Port security limits only hosts using secure MAC addresses to communicate with the switch, while Port isolation secures certain ports and prevents unnecessary inter-vlan communication between ports. Other security mechanisms such as DHCP snooping offers a convenient central management solution to uniquely identify, locate and manage the task of assigning IP addresses to every subscriber and ARP inspection provides users with more stable services on a more secure network.

Efficient Network Monitoring and Management Tools

The MEN-4210 features SNMP, an industry standard management protocol, enables administrators to centrally manage and monitor the network, and easily but quickly resolve issues that impact network performance. Supported by SNMP traps, the switch allows administrators to monitor unsolicited SNMP trap messages and maintain a helpful network status data for managing a healthy network. And in the event of network malfunction, Email alarm feature of the switch sends email alerts to notify administrator regarding real time network problems. These efficient features speed up and simplify network monitoring and troubleshooting, reducing operational head burden.

Features Highlight

Fine-grained Service Management

VLAN functions of the MEN-4210, port-based/tag-based and VLAN Stacking, allows ISPs to provide certain services for their specific subscribers without overlapping VLAN IDs and without mixing the traffic coming from different customers. By simply adding a layer of IEEE 802.1Q tag to already tagged (802.1Q) packets and producing 'double-tagged' frames, the switch expands VLAN space. With this expanded VLAN space, ISPs using the MEN-4210 can provide the services with extra security and separation fulfilling the requirements of their subscribers in a network.

Unparalleled Network Performance

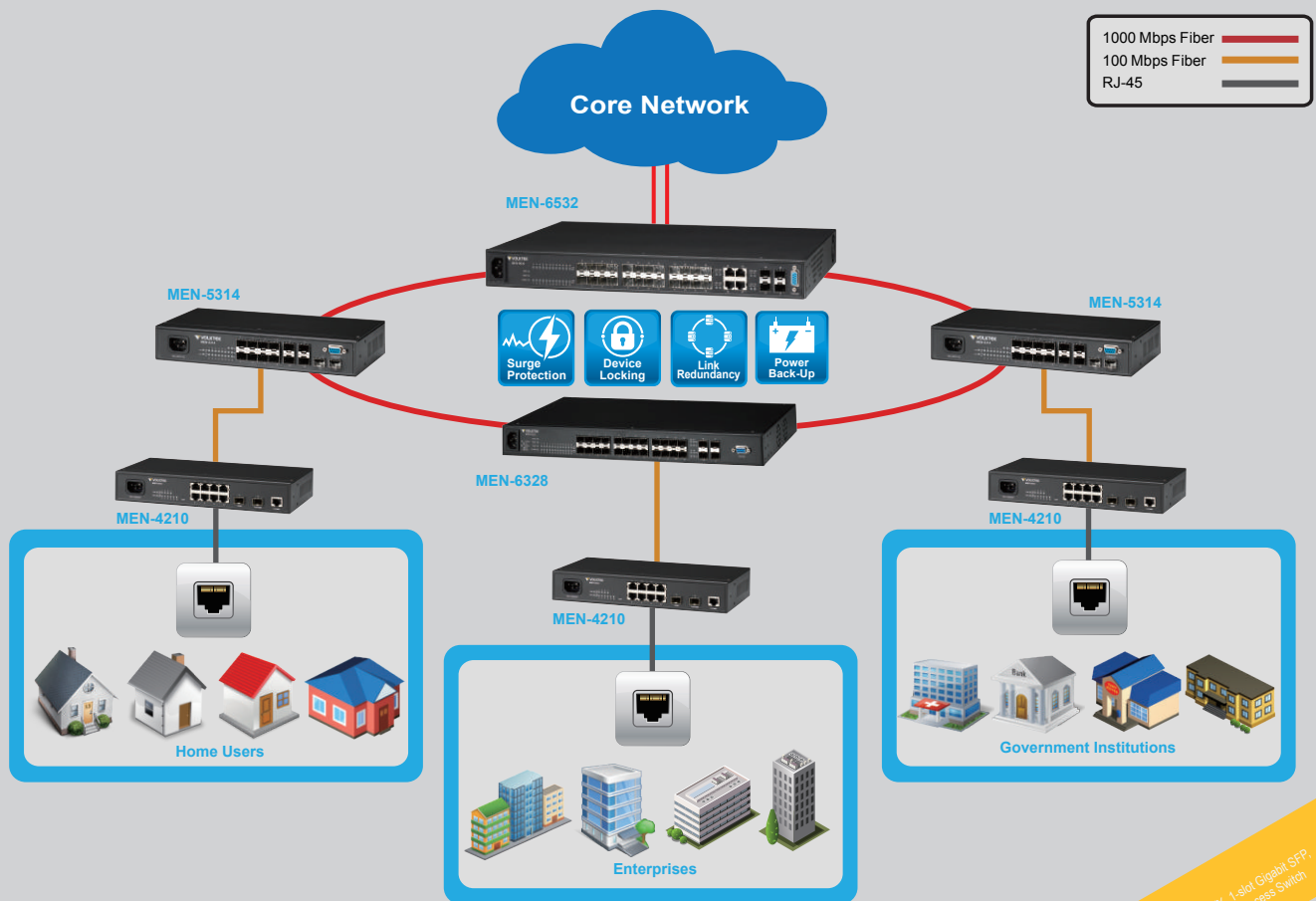
Excessive and unnecessary inbound unicast, multicast or broadcast traffic on physical interfaces can degrade your network performance and can even result in complete loss of network service. Storm control and traffic monitor features on the MEN-4210 enables ISPs to effectively monitor and limit incoming traffic to prevent LAN ports from being disrupted. In addition, Loop detection on the switch identifies loops in the network and disables the relevant ports to avoid broadcast storms, thus preventing from degrading the LAN and achieving maximum network performance. Those features co-work with auto-recovery timer delivering robotic method in control your network.

Application

High-quality Data services in a small but powerful package

- ▶ Simple, quick and easy-to-deploy solution
- ▶ Extensive software features for reliable data transmissions
- ▶ Perfect for Low ARPUs

Whether building a small network or deploying network switches very quickly to provide instant connectivity, EXPLORE is the perfect choice for you. Designed to fit in confined spaces, EXPLORE allows you to deploy both aggregation and access switch in same cabinet, reducing additional cabinet installation costs. With EXPLORE you can provide up to 15Mbps speeds initially for Low ARPUs and simple change of SFPs allows you to deliver higher bandwidths suiting your subscriber requests.



Area Aggregation
 MEN-6532: 24-slot Gigabit Multi-rate SFP,
 4-Gigabit Combo ports Managed L2 Aggregation Switch

Building Aggregation
 MEN-6328: 24-slot Fast Ethernet SFP,
 4-slot Gigabit SFP Managed L2 Aggregation Switch

Building Aggregation
 MEN-5314: 12-slot Fast Ethernet SFP,
 2-Gigabit SFP slots Managed L2 Aggregation Switch

Access Switch
 MEN-4210: 8-port 10/100Base-TX, 1-slot Gigabit SFP,
 1-slot 100-FX/Gigabit SFP Managed Access Switch

EXPLORE

Specifications

Features

Network Function		User Security	
LACP Support/Static Link Trunking		MAC Filtering	
STP/RSTP		Port Isolation	
Loop Detection/Autorecovery time		Static MAC forwarding	
Traffic Monitor/Autorecovery time		Port Security	
VLAN Stacking (Q in Q)		ACL (L2/L3/L4)	
Network Storm Protection		BPDU Guard/Filter	
IGMP Snooping		DHCP Snooping	
SFP DDMI support		802.1x Support	
		ARP Inspection	
		HDoS	
Network Management		Traffic Management and QoS	
RS-232c Local Console		802.1Q Tag-based VLAN	
Telnet and CLI		Port-based VLAN	
Web-based GUI		Active VLAN Support 4K	
SNMP v1/v2c		8 Hardware Queues	
SNMP Trap		SP/WRR	
RMON (1, 2, 3, 9)		Storm Control	
Port Mirroring		Rate Limiting	
Private MIB		802.1p/DSCP/ToS Support	
Firmware Upgradeable		Management VLAN	
Configuration Backup/Restore			
Port configuration, status, statistics			
Maximum Distances			
Copper		100 m	
Console		15 m	
SFP		Up to 110 Km	
Performance			
Throughput		14,880 pps to 10 Mbps ports	
		148,800 pps to 100 Mbps ports	
		1,488,000 pps to 1000 Mbps ports	
Switch Fabric		5.6Gbps	
L2 Forwarding		4.16Mpps	
MAC Table Size		16K	
Packet buffer size		8Mbit	
Jumbo Frame Size		10K	

Standards

IEEE 802.3	10Base-T
IEEE 802.3u	100Base-TX/FX
IEEE 802.3z	1000Base-SX/LX/LHX
IEEE 802.3x	Flow Control
IEEE 802.3ad	Link Aggregation
IEEE 802.1d	STP
IEEE 802.1w	RSTP
IEEE 802.1p	CoS Prioritization
IEEE 802.1q	VLAN Tagging
IEEE 802.1x	Port Authentication
IEEE 802.3	N-way Auto Negotiation

Power

Input Voltage	100~240V AC, 15V DC optional
	12VDC Battery Back-up
Power Consumption	14W

Ports

Ports	8 x 10/100Mbps (RJ-45)
	1 x GbE SFP slot
	1 x Multi-rate GbE SFP slot
	1 x RJ-45 Console

Mechanical and Environment

Operating Temperature	0°C~50°C
Storage Temperature	-20°C~70°C
Operating Humidity	10 to 80% RH (non-condensing)
Storage Humidity	5 to 90% RH (non-condensing)
Weight	1.2kg
Dimensions	268x44x128mm (WxHxD)

Ordering Information

MEN-4210	8-port 10/100Base-TX, 1-slot Gigabit SFP, 1-slot Multi-rate Gigabit SFP Managed Access Switch with AC Power Supply
MEN-4210D	8-port 10/100Base-TX, 1-slot Gigabit SFP, 1-slot Multi-rate Gigabit SFP Managed Access Switch with DC Power Supply
FPM-107	100FX Multi-mode SFP Module
FPM-132	100FX Bi-di Single Mode SFP Module
GBM-104	Gigabit Multi-mode SFP Module
GBM-123	Gigabit Bi-di Single Mode SFP Module

*Specifications subject to change without notice.

Dimension

