

# MEN-5314

Managed Layer 2 Aggregation Fast Ethernet Switch  
12-slot 100FX SFP + 2-slot Gigabit Multi-rate SFP



## Description

The MEN-5314 Managed Layer 2 Aggregation switch is an industry-first small form-factor fiber switch specifically designed considering the size constraints involved in on-field network deployments. Where time and space are constraints, and broadband competition is high, the MEN-5314 is a much quicker deployment solution that reduces time-to-deploy across large number of locations. Easily deploy the MEN-5314 along with your existing access switch cabinet and avoid unnecessary CAPEX by preventing additional cables and cabinet installation costs.

Equipped with 12-slot 100Mbps SFP downlinks plus 2 Gigabit Multi-rate SFP uplinks, the MEN-5314 is capable of connecting up to 14 network devices for Fast Ethernet and Gigabit Ethernet. Extensive software features of the switch deliver high-quality, reliable yet simple-to-use experience to its users. The MEN-5314 is a high performance and time-saving solution for service providers who want to increase the bandwidths, reduce transmission bottlenecks and offer highly flexible packages to low density subscriber base with medium ARPUs.

## Features Highlight

### Economic and Space-conscious Design for Quick Deployment Solution

Built in compact, fanless and space-saving design to fit in confined spaces, similar in size to an access switch, the MEN-5314 is industry-first small-form factor switch. Now you can easily deploy the MEN-5314 along with your existing access switch cabinet, preventing additional cables and cabinet installation costs, and avoiding unnecessary CAPEX. This flexible Ethernet switching solution enables you to quickly achieve profitability by improving productivity, cutting operational expenses and shorten your deployment time.

### 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-5314 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.

### Robust Network Security

Built with enhanced defence mechanisms, the MEN-5314 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

Issues that impact network performance can be quickly resolved with enhanced traffic management, monitoring and analysis tools including SNMP and RMON. Designed to improve management efficiency, SNMPv1/v2c allows end users to centrally manage different levels in a network and RMON gives the capability to monitor the network performance. Service providers can ensure a reliable network by identifying connectivity and performance issues, and isolating the problem remotely on individual switches. This avoids high OPEX and provides administrators the control they need to manage a healthy and efficient 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-5314 enables ISPs to effectively monitor and limit incoming abnormal 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.

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-5314 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-5314 reduces device thefts and provides a continuous network connectivity saving your infrastructure investments.

Non-stop Network with Redundant Power

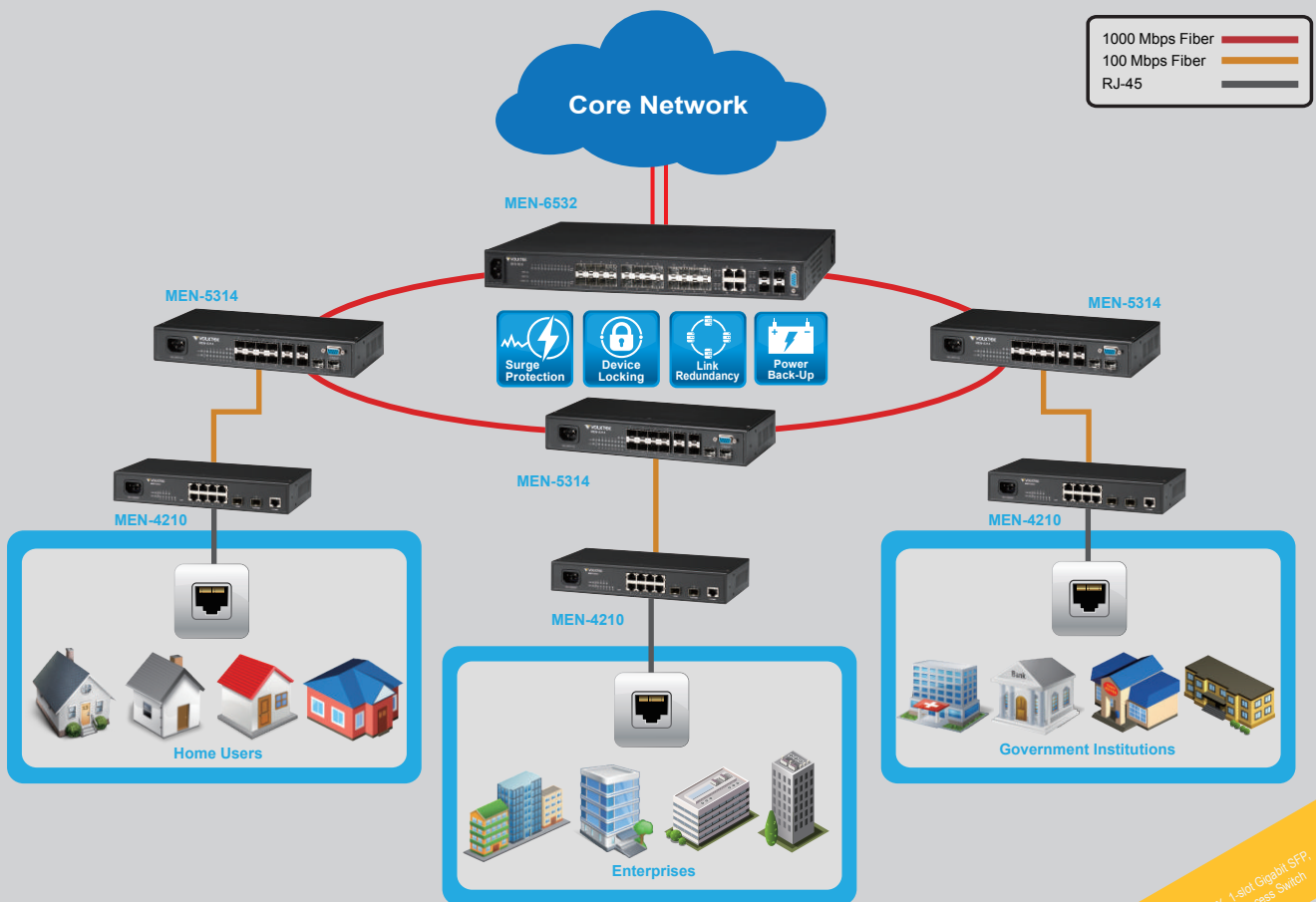
Each time a power failure arises, the subscribers suffer from disrupted network and this in turn translates into loss of revenue. As one of the most innovative solutions for redundant power, the MEN-5314 is built with AC, DC and battery backup options to ensure that the device and the network are always available. This field-proven and most reliable solution enables service providers to provide continuous power supply to network devices and thereby allows them to provide non-stop services to their subscribers in even in power outages.

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-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**

<b>Network Function</b>	
LACP Support	Status display and event report
Static Link Trunking	DDMI support
Spanning Tree Protocol	Management VLAN
Rapid Spanning Tree Protocol	
IGMP Querier	<b>User Security</b>
Loop Detection with auto-recovery	MAC Filtering
MVR	Port Isolation
Port-based VLAN	802.1x Support
802.1q VLAN	ACL L2/L3/L4
VLAN Stacking (QinQ)	DHCP Client/snooping
IGMP Snooping (v1/v2/v3)	DHCP Relay/option82
	ARP Inspection
	Port security
<b>Network Management</b>	
RS-232c Local Console	<b>Traffic Management and QoS</b>
Telnet CLI	Flow control
SNMP v1, v2c	4K Active VLAN Support
Web-based GUI	802.1p Priority Queues per port
Port Mirroring	Traffic Classification
Firmware Upgradeable	Network Storm Control
Configuration Backup / Restore	Traffic Monitor with auto-recover
Port configuration and statistics	Rate Limiting
RMON (1, 2, 3, 9)	QoS Scheduler SP/WRR
<b>Maximum Distances</b>	
Console	15 m
SFP	Up to 110 Km
<b>Performance</b>	
Throughput	148,800 pps to 100 Mbps ports 1,488,000 pps to 1000 Mbps ports
Switch Fabric	6.4Gbps
L2 Forwarding	4.76Mpps
MAC Table Size	16K
Packet buffer size	12Mbit
Jumbo Frame Size	9K

**Standards**

<b>IEEE 802.3u</b>	100Base-FX
<b>IEEE 802.3z</b>	1000Base-SX/LX/LHX
<b>IEEE 802.3x</b>	Flow Control
<b>IEEE 802.3ad</b>	Link Aggregation
<b>IEEE 802.1d</b>	STP
<b>IEEE 802.1w</b>	RSTP
<b>IEEE 802.1p</b>	CoS Prioritization
<b>IEEE 802.1q</b>	VLAN Tagging
<b>IEEE 802.1x</b>	Port Authentication

**Power**

<b>Input Voltage</b>	100~240V AC, 12~15V DC
	Battery backup available on request
<b>Power Consumption</b>	21.3W

**Ports**

<b>Ports</b>	12 x 100Base-FX/SFP 2 x GbE Multi-rate SFP 1 x RS-232 Console (DB-9, female)
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**Mechanical and Environment**

<b>Operating Temperature</b>	0°C~50°C
<b>Storage Temperature</b>	-20°C~70°C
<b>Operating Humidity</b>	10 to 80% RH (non-condensing)
<b>Storage Humidity</b>	5 to 90% RH (non-condensing)
<b>Weight</b>	1.2kg
<b>Dimensions</b>	128x268x44mm (DxWxH)

**Ordering Information**

<b>MEN-5314</b>	12-slot 100FX SFP, 2-slot Gigabit Multi-rate SFP Managed Layer 2 Aggregation Switch
<b>FPM-107</b>	100FX Multi-mode SFP Module
<b>FPM-132</b>	100FX Bi-di Single Mode SFP Module
<b>GBM-104</b>	Gigabit Multi-mode SFP Module
<b>GBM-123</b>	Gigabit Bi-di Single Mode SFP Module

\*Specifications subject to change without notice.

**Dimension**

