



LANBASED L-FWG-74244XM-B Series

- 20-port Gigabit SFP Ports & 4-port Copper/SFP Combo + 4-port SFP+
- Models with AC/DC Dual Power Input available
- Layer 2+ Full Managed Software Features with MSTP, LACP, LLDP, sFlow, 802.1X, RADIUS, TACAS+, and ACL
- DHCP Server/Relay/Snooping
- Voice VLAN

20 Port SFP and 4 Port Copper/SFP Combo + 4 Port SFP+ Uplinks Layer 2+ Full Managed Switch

Introduction

The switch is 24-port 100/1000Base-X SFP with 4-port 10/100/1000Base-T(X) and 4-port 1G/10G SFP/SFP+ Open Slot Rack-mount L2+ Full Management Network Switch that is designed for medium or large network environment to strengthen its network connection. The EEE feature reduces the power consumption when there is no traffic forwarding even port is still connected. The 10G uplink port design is available and important for high bandwidth uplink request when cascaded with other switches.

With advanced layer 2 and QoS features, this switch is targeted at multi-service operators (MSO) with a desire to deploy provisioned triple play services via active Ethernet FTTx network infrastructures. Fiber based network infrastructures offer the data rates required by triple play services such as high speed internet access, VoIP and HD IPTV. The L-FWG-74244XM-B-AD Ethernet access switch provides VLAN, QoS and IGMP/MLD L2 feature sets as well as robust security management to facilitate service provider's build out of a manageable and secure FTTx access network.

Full Layer 2+ Management Features

The switch includes full Layer 2+ Management features. The software set includes up to 4K 802.1Q VLAN and advanced Protocol VLAN, Private VLAN, MVR...advanced VLAN features. There are 8 physical queues Quality of Service, IPv4/v6 Multicast filtering, Rapid Spanning Tree protocol to avoid network loop, Multiple Spanning Tree Protocol to integrate VLAN and Spanning Tree, LACP, LLDP; sFlow, port mirroring, cable diagnostic and advanced Network Security features. It also provides Console CLI for out of band management and SNMP, Web GUI for in band Management.

Advanced Security

The switch supports advanced security features. For switch management, there are secured HTTPS and SSH, the login password, configuration packets are secured. The port binding allows to bind specific MAC address to the port, only the MAC has the privilege to access the network. The 802.1X port based Access Control, every user should be authorized first when they want to access the network. AAA is the short of the Authentication, Authorization and Accounting with RADIUS, TACAS+ server. Layer 2+ Access Control List allows user to define the access privilege based on IP, MAC, Port number...etc.

Product Specification

Interface		
100/1000Base-SX/LX SFP Port		20
100/1000Base-X SFP and 1000M RJ45 Combo Port		4
10G Uplink SFP+ Slot		4
Console Port for CLI Management		1
System Performance		
Packet Buffer		32Mbits
Memory		Flash: 16MB RAM: 128MB
MAC Address Table Size		32K
Switching Capacity		128Gbps
Forwarding Rate		95.23Mpps
L2 Features		
Auto-negotiation		•
Auto MDI/MDIX		•
Flow Control (duplex)	802.3x (Full)	•
	Back-Pressure (Half)	•
Spanning Tree	IEEE 802.1D (STP)	•
	IEEE 802.1w (RSTP)	•
	IEEE 802.1s (MSTP)	•
VLAN	VLAN Group	4K
	Tagged Based	•
	Port-based	•
	Voice VLAN	Voice VLAN with OUI
Link Aggregation	IEEE 802.3ad with LACP	•
	Static Trunk	•
	Max. LACP Link Aggregation Group	14
	Max. Port per Link Aggregation Group	8
IGMP Snooping	IGMP Snooping v1/v2/v3	Supports 1024 IGMP groups
	IGMP Static Multicast Addresses	Supports 1024 static multicast addresses
	IPv6 MLD Snooping	Supports 1024 MLD groups
	MLD Static Multicast Addresses	Supports 1024 static multicast addresses
	Querier, Immediate Leave	•
Storm Control (Broadcast/Multi-cast/Un-known Unicast)		•
Jumbo Frame Support		9.6KB
QoS Features		
Number of priority queue		8 queues/port
DiffServ (RFC2474 Remarking)		•
Scheduling (WRR, Strict, Hybrid)		•
CoS	IEEE 802.1p	•
	IP ToS precedence, IP DSCP	•
Security		
Management System User Name/Password Protection		•
User Privilege		Set user privilege up to 15 Level
Port Security (MAC-based)		•
IEEE 802.1x Port-based Access Control		•
ACL (L2/L3/L4)		•
IP Source Guard		•
RADIUS (Authentication, Authorization, Accounting)		•
TACACS+		•
HTTP & SSL (Secure Web)		•
SSH v2.0 (Secured Telnet Session)		•
MAC/IP Filter		•
Management		
Command Line Interface (CLI)		•
Web Based Management		•
Telnet		•
Access Management Filtering		SNMP/WEB/SSH/TELNET
Firmware Upgrade via HTTP		•
Dual Firmware Images		•
Configuration Download/Upload		•
SNMP (v1/v2c/v3)		•
RMON (1,2,3,&9 groups)		•
DHCP (Client/Relay/Option82/Snooping)		•
System Event/Error Log		•
NTP/LLDP		•
Cable Diagnostics		•

Management	
IPv6 Configuration	•
Port Mirroring	Many to One
Mechanical	
Power Input	100~240VAC. AC/DC dual power input available.
Dimension (H*W*D)	44 x 440 x 220 mm
Max. System Power Consumption	90 W
Fan	2 Fans with temperature-based speed control
LED	Power, Link/Act, Speed
Operating Temperature	-10~60°C
Storage Temperature	-20~85°C
Operating Humidity	5~90% (non-condensing)
Standard	
IEEE 802.3 – 10Base-T	•
IEEE 802.3u - 100Base-TX	•
IEEE 802.3ab - 1000Base-T	•
IEEE 802.3z - 1000 Base-SX/LX	•
IEEE 802.3ae 10GBase SFP+	•
IEEE 802.3az - Energy Efficient Ethernet (EEE)	•
IEEE 802.3x - Flow Control	•
IEEE 802.1Q - VLAN	•
IEEE802.1v - Protocol VLAN	•
IEEE 802.1p - Class of Service	•
IEEE 802.1D - Spanning Tree	•
IEEE 802.1w - Rapid Spanning Tree	•
IEEE 802.1s - Multiple Spanning Tree	•
IEEE 802.3ad - Link Aggregation Control Protocol (LACP)	•
IEEE 802.1AB - LLDP (Link Layer Discovery Protocol)	•
IEEE 802.1X - Access Control	•

Order Information

Model Name	100/1000BaseX SFP	RJ45/SFP Combo	10G SFP+ Ports	Power Input
L-FWG-74244XM-B-AD	20	4	4	100~240V AC/48~57V DC Dual Input
L-FWG-74244XM-B	20	4	4	100~240V AC