4MI-SG2416TFM

보안기능확인 L3 스위치 | L3 Managed Ethernet Switch

Model-specific technical specification

DOCUMENT NO.	REVISION	RELEASE DATE	DOCUMENT STATUS
DS-SG2416TFM-KR	Rev. A	2024-08-12	FINAL / RELEASED

01. TECHNICAL SUMMARY

Parameter	Specification	Parameter	Specification
Access Interfaces	8 x RJ45 (Non-PoE) + 24 x SFP	**Uplink**	6 × 10G/GE SFP+
Switching Capacity	184 Gbps	**Forwarding Rate**	136.90 Mpps
MAC / Jumbo Frame	32K / 9K	**Power Redundancy**	Max. 2 hot-swap PSU, 1+1
Dimensions	440 × 350 × 44 mm	**Operating Temp.**	0 - 50 °C

Product Description

4MI-SG2416TFM은 보안기능확인서 인증을 획득한 SG2400 Series의 10GE 집선(aggregation) L3 스위치로, 공공·기업망 및 IP MAN(도시권 통신망)처럼 안정성과 보안 요구가 높은 환경을 위해 설계되었습니다.

8개의 비 PoE RJ45 포트와 24개의 SFP 슬롯, 6개의 10G/GE SFP+ 업링크를 제공하며, ACL, QinQ, Ethernet OAM, 캐리어급 QoS, 10GE Ether-Ring 및 L3 라우팅 기능을 지원합니다.

콘솔/Telnet/SSH/Web GUI/SNMP 기반 관리와 ISSU를 지원하며, VSS(가상 스위치 시스템) 적용 시 다수 장비를 하나의 논리 스위치처럼 운용하여 링크 활용도와 관리 효율을 높일 수 있습니다.

02. HARDWARE SPECIFICATIONS

Electrical, interface, performance, mechanical and environmental ratings

Category	Parameter	Value / Rating
Interface	10/100/1000BASE-T RJ45	8 ports (Non-PoE)
Interface	100/1000BASE-X SFP	24 slots
Interface	10G/GE SFP+	6 slots
Interface	Console	1 x RJ45
Performance	Switching capacity	184 Gbps
Performance	Forwarding rate	136.90 Mpps
Performance	Jumbo frame	9K bytes
System	MAC address table	32K entries
System	Flash memory	16 MB
System	DRAM	512 MB
Mechanical	Dimensions (W x D x H)	440 × 350 × 44 mm
Mechanical	Weight	6 kg
Environment	Operating temperature	0 - 50 °C
Environment	Storage temperature	-20 - 70 °C
Environment	Relative humidity	5 - 95%, non-condensing
Power	Input rating	AC 100 - 240 V, 50 Hz ±10%
Power	Power supply	75 W, max. 2 hot-swap units, 1+1 redundancy
Power	Power consumption	16 W no-load / 35 W full-load
Thermal	Total heat output	255.97 BTU/h
PoE	PoE budget	N/A

Notes

- 모든 정격 사양은 정확한 하드웨어 리비전과 장착된 전원공급장치(PSU)에 따라 달라질 수 있습니다.
- 광모듈 사양 및 전송 거리는 선택한 SFP/SFP+ 트랜시버에 따라 달라집니다.
- 별도로 명시되지 않는 한, 환경 조건 및 제한 사항은 설치가 완료된 전체 시스템을 기준으로 적용됩니다.

03. SOFTWARE FEATURES

Protocol and feature support based on the SG2400 Series product catalog

Function Group	Supported Functions	Remarks
VLAN	4K VLAN; QinQ; Selective QinQ; GVRP; Voice VLAN	Series feature
Spanning Tree	IEEE 802.1D STP; 802.1w RSTP; 802.1s MSTP	Model listed
Link Aggregation	Static aggregation; IEEE 802.3ad LACP	Series feature
Ethernet OAM	Ethernet OAM; 10GE Ether-Ring	Series feature
IPv4 Routing	Static routing; RIP; OSPF; BGP; PBR; ECMP	Series feature
IPv6	ND; DHCPv6; ACLv6; static routing; RIPng; OSPFv3; BGP4+	Series feature
QoS	VLAN/MAC/IP/ToS/DSCP classification; 802.1P/DSCP remarking; SP/WRR/SP+WRR; Tail-Drop/WRED; shaping/rate limiting	Carrier-class
Security	Port Security/Isolation; MAC-based control; DHCP Snooping (Option 82); DAI; IP Source Guard	Series feature
AAA / ACL	IEEE 802.1X; RADIUS; TACACS+; L2/L3/L4 ACL	Series feature
Protection	DoS/SYN Flood/UDP Flood protection; Storm-Control	Series feature
Reliability	ERPS/EAPS; VSS; VRRP; ISSU; 1+1 power redundancy	Series feature
Management	Console; Telnet; SSH; SNMP; Web GUI	Model listed

Reference basis

Reference	Coverage
4MITECH Product Catalog	Integrated Edition Ver. 1.0
Product scope	SG2400 Series overview and SG2416TFM specifications
Feature scope	Catalog-listed hardware and software features

04. MECHANICAL, ORDERING & COMPLIANCE

Installation data, order code, package contents and document control

Mechanical & Installation

Parameter	Requirement / Value
Form factor	19-inch rack-mount, 1U
Chassis dimensions	440 × 350 × 44 mm (W x D x H)
Weight	6 kg
Environment	0 - 50 °C; 5 - 95% RH, non-condensing

Ordering Information

Order Code	Description	Power Configuration
4MI-SG2416TFM	8 RJ45 + 24 SFP + 6 SFP+ L3 switch	Single or dual PSU (max. 2, 1+1 redundancy)

Package Contents

Item	Quantity	Remarks
Switch chassis	1	4MI-SG2416TFM
Power supply unit (PSU)	1 or 2	Order configuration dependent
Rackmount kit	1 set	Included
Console cable	1	RJ45

Compliance References

Document	Reference
Security Function Confirmation Certificate	Certification obtained; certificate details provided separately
Test Report	Provided separately
Mechanical Drawing	Provided separately

Revision History

Rev.	Date	Description
A	2024-08-12	Initial release