

4MI-T2416QFM

10G/100G L3 집선 스위치 | L3 Aggregation Switch

Model-specific technical specification

DOCUMENT NO.	REVISION	RELEASE DATE	DOCUMENT STATUS
DS-T2416QFM-KR	Rev. A	2024-08-12	FINAL / RELEASED



01. TECHNICAL SUMMARY

Parameter	Specification	Parameter	Specification
Access Interfaces	24 × 10G/GE SFP+	Uplink	6 × 40G/100G QSFP28
Switching Capacity	1,680 Gbps	Forwarding Rate	600 Mpps
MAC / Jumbo Frame	32K / 10K	Power Supply	200 W; 1 included, 1 optional
Dimensions	450 × 442 × 45 mm	Operating Temp.	0 - 50 °C

Product Description

4MI-T2416QFM은 데이터센터, 기업·기관 백본 및 대용량 트래픽 집선 환경을 위한 4MI-T Series의 L3 Managed Switch입니다.

24개의 10G/GE SFP+ 포트와 6개의 40G/100G QSFP 업링크를 제공하며, 1,680 Gbps의 스위칭 용량과 600 Mpps의 포워딩 성능을 지원합니다.

IPv4/IPv6 라우팅, 멀티캐스트, QoS 및 보안 정책을 지원하며, VSS-VRRP-BFD와 선택형 전원 이중화로고가용성 네트워크를 구성할 수 있습니다.

02. HARDWARE SPECIFICATIONS

Electrical, interface, performance, mechanical and environmental ratings

Category	Parameter	Value / Rating
Interface	RJ45 data ports	Not provided
Interface	10G/GE SFP+	24 slots
Interface	QSFP+ / QSFP28	6 slots (40G/100G)
Interface	Console / MGMT / USB	1 / 1 / 1
Performance	Switching capacity	1,680 Gbps
Performance	Forwarding rate	600 Mpps
Performance	Jumbo frame	10K bytes
System	MAC address table	32K entries
System	Flash memory	32 MB SPI + 8 GB MMC
System	DRAM	4 GB
Mechanical	Dimensions (W x D x H)	450 × 442 × 45 mm
Mechanical	Weight	8.5 kg
Environment	Operating temperature	0 - 50 °C
Environment	Storage temperature	-20 - 70 °C
Environment	Relative humidity	5 - 95%, non-condensing
Power	Input rating	AC 90 - 240 V, 50 - 60 Hz
Power	Power supply	200 W; hot-swap; 1 included + 1 optional
Power	Power consumption	45 W no-load / 130 W full-load
Layer 3	SVI / ARP table	1K SVI / 8K ARP entries
Layer 3	Routing table	30K entries
Reliability	MTBF	100,000 hours

Notes

- 200 W 핫스왑 전원공급장치 1 개가 기본 제공되며, 추가 1 개는 옵션입니다. 2 개 장착 시 1+1 전원 이중화를 지원합니다.
- 광모듈의 지원 속도와 전송 거리는 장착한 SFP+/QSFP 트랜시버 사양에 따라 달라집니다.
- 정격 소비전력은 무부하 45 W, 최대 부하 130 W이며, 환경 조건은 스위치 본체를 기준으로 합니다.

03. SOFTWARE FEATURES

Protocol and feature support based on the Aggregation Switch product catalog

Function Group	Supported Functions	Remarks
VLAN	4K active VLAN; IEEE 802.1Q; QinQ; GVRP; Voice VLAN	Series feature
Spanning Tree	STP; RSTP; MSTP; BPDU/Root/Loopback Guard	Series feature
Link Aggregation	Static aggregation; LACP; interface backup	Series feature
Multicast	IGMP v1/v2/v3; Snooping/MVR; PIM-DM/SM; MLD v1/v2/Snooping	Series feature
IPv4 Routing	Static; RIP v1/v2; OSPF; BGP; PBR; ECMP; BFD; uRPF; Multi-VRF	Series feature
IPv6	Dual stack; ND; DHCPv6; ACLv6; static routing; RIPng; OSPFv3; BGP4+	Series feature
QoS	CAR/HQoS; CoS/DSCP/ToS classification; SP/WRR/SP+WRR; WRED; shaping/policing	Series feature
Security	Port Security/Isolation; DHCP Snooping/Option 82; DA; IP Source Guard	Series feature
AAA / ACL	IEEE 802.1X; RADIUS; TACACS+; L2/L3/L4 ACL	Series feature
Protection	Flood defense; broadcast/multicast/unknown-unicast storm control	Series feature
Reliability	VSS; VRRP; BFD; EAPS/ERPS; 1+1 redundancy with 2 PSUs	Series feature
Management	Console; Telnet/SSH; HTTP(S); SNMP; RMON; LLDP; NTP; SPAN/RSPAN; sFlow	Series feature

Reference basis

Reference	Coverage
4MITECH Product Catalog	Integrated Edition Ver. 1.0
Product scope	Aggregation Switch overview and T2416QFM specifications
Feature scope	Series capabilities; availability depends on configuration

04. MECHANICAL, ORDERING & REFERENCES

Installation data, order code, package contents and document control

Mechanical & Installation

Parameter	Requirement / Value
Form factor	19-inch rack-mount, 1U
Chassis dimensions	450 × 442 × 45 mm (W x D x H)
Weight	8.5 kg
Environment	0 - 50 °C; 5 - 95% RH, non-condensing

Ordering Information

Order Code	Description	Power Configuration
4MI-T2416QFM	24 SFP+ + 6 QSFP28 L3 switch	1 × 200 W PSU included; 2nd optional

Package Contents

Item	Quantity	Remarks
Switch chassis	1	Included; 4MI-T2416QFM
Power supply unit (PSU)	1	200 W included; 1 extra PSU optional
Rackmount kit	1 set	Included
Console cable	1	Included
Power cords	1 set	Included

Documentation References

Document	Reference
Product Catalog	4MITECH Integrated Edition Ver. 1.0
Hardware Reference	T2416QFM specifications; catalog p. 16
Feature Reference	Aggregation Switch; catalog pp. 15, 17

Revision History

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