

When ATEN KVM Over IP Extender (KE Series) deploys on DLink Switch

General Requirement on Network Switch:

We recommend 1000Mbps L2/L3 Gigabit Ethernet switches (wire speeds, non-blocking with 1Gbps/1.5Mpps performance per port) for KE/VE Series devices installed on different LAN segments. 10/100Mbps switches are not recommend, for it might cause poor performance.

Switch Specifications

The following specifications are recommended when choosing a layer 2 or layer 3 switches:

- 1000Mbps Gigabit Ethernet switches (1000Mbps or faster Ethernet ports)
- High bandwidth between switches, if possible using Fibre Channel
- Layer 3 switches that efficiently processes IGMP queries
- IGMP Snooping v2 or v3
- Flow Control Functions
- Throughput of: Full Duplex, 1Gbps up- and down- stream speeds per port
- Performance of their most onerous tasks (e.g. IGMP snooping) with multiple dedicated processors (ASICs)
- Use the same switch make and model throughout each subnet
- The maximum number of simultaneous 'snoopable groups' the switch can handle meets or exceeds the number of KE transmitters that will be used to create Channel groups
- In multi point configurations, the IGMP and Flow Control function of your network switches must be enabled to avoid the deterioration of data throughput.
- To ensure functionality, using a L2/L3 network switch which supports IGMP queries is necessary.

Many of our customers deploy ATEN KE Series on DLink switches. We enlist DLink DGS-1510 configuration suitable for KE series here for your reference:

Jumbo Frame setting:

System→ Port Configuration→Jumbo Frame→9216
(Please note Jumbo frame is no need to set for KE.)

Enable Fast leave and IGMP Querier:

IGMP Snooping VLAN Settings

IGMP Snooping VLAN Settings

VID (1-4094)

Status ☒ Enabled ☐ Disabled

Minimum Version

Fast Leave ☐ Enabled ☒ Disabled

Report Suppression ☐ Enabled ☒ Disabled

Suppression Time (1-300)

Querier State ☐ Enabled ☒ Disabled

Query Version

Query Interval (1-31744) sec

Max Response Time (1-25) sec

Robustness Value (1-7)

Last Member Query Interval (1-25) sec

Proxy Reporting ☐ Enabled ☒ Disabled

Source Address

Apply

Flow Control:

System → Port Configuration → Port Settings → Flow Control → ON

Port Settings

Port Settings

Unit From Port To Port State MDIX Auto Downgrade Flow Control

Duplex Speed Capability Advertised Description

Apply

Unit 1 Settings

Port	Link Status	State	MDIX	Flow Control		Duplex	Speed	Auto Downgrade	Description
				Send	Receive				
eth1/0/1	Up	Enabled	Auto-MDIX	Off	Off	Auto-duplex	Auto-speed	Disabled	
eth1/0/2	Down	Enabled	Auto-MDIX	Off	Off	Auto-duplex	Auto-speed	Disabled	
eth1/0/3	Down	Enabled	Auto-MDIX	Off	Off	Auto-duplex	Auto-speed	Disabled	
eth1/0/4	Down	Enabled	Auto-MDIX	Off	Off	Auto-duplex	Auto-speed	Disabled	
eth1/0/5	Down	Enabled	Auto-MDIX	Off	Off	Auto-duplex	Auto-speed	Disabled	
eth1/0/6	Down	Enabled	Auto-MDIX	Off	Off	Auto-duplex	Auto-speed	Disabled	

Multicast Filtering:

L2 Features → L2 Multicast Control → Multicast Filtering

Multicast Filtering

Multicast Filtering

VID List Multicast Filter Mode

Apply

Total Entries: 1

Select "Filter Unregistered"

VLAN	Multicast Filter Mode
default	Forward Unregistered Groups

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