

# When ATEN KVM Over IP Extender (KE Series) deploys on Cisco 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.

We have numerous customers deploy ATEN KE Series on Cisco switches. We enlist Cisco 2960X configuration suitable for KE series for your reference:

#Enable IGMP snooping:

[configure terminal](#)

[ip igmp snooping](#)

#Enable IGMP snooping on a VLAN interface:

[configure terminal](#)

ip igmp snooping vlan 1

#Enable IGMP Immediate Leave

configure terminal

ip igmp snooping vlan 1 immediate-leave

#Enable IGMP snooping querier:

configure terminal

ip igmp snooping querier

#Enable Port Flow Control

configure terminal

interface range gigabitethernet 1/0/1-24

flowcontrol receive on

#Disable Multicast Flooding During a TCN Event

configure terminal

interface range gigabitethernet 1/0/1-24

no ip igmp snooping tcn flood

After the modification, copy the configuration to startup configuration:

copy running-config startup-config