

# KX-FDA9610Z

Design and specifications are subject to change without notice. Pictures in the document are for reference only, and the actual product shall prevail.



- High port density 10G line cards
- Fully compliant with 40GE Ethernet standards
- Support virtualization technologies
- Hardware level encryption technology MACsec
- High-performance IPv4/IPv6 service capabilities
- Comprehensive security control policies
- Support hot swapping for all components
- Advanced CLOS multistage and multi-plane switching architecture, delivering great bandwidth scalability

## Technical Specification

### Hardware Feature

Total Number of Slots	13
Number of Line Card Slots	10
Number of MPU Slots	2
Switching fabric module Slots	1
Hot Swapping	Yes
Console Port	1 × RJ45 console port 1 × Micro-USB port
Power Supply	Not included
	Min: 3 Max: 6  100-240V AC 50-60 Hz (Internal)
Power Consumption	Idling: 30W Full load: 2430W
Operating Temperature	0°C to 45°C (32°F to 113°F)
Operating Humidity	5%RH–95%RH
Storage Temperature	–40°C to 70°C (–40°F to 158°F)
Redundancy	Redundant MPUs, power modules, and fan trays

### Performance

Layer	Layer 3
Managed	Yes
Switching Capacity	256 Tbps
Packet Forwarding Rate	9000 Mpps
Jumbo Frame	10000 Byte

## Features

Ethernet	<ul style="list-style-type: none"> <li>IEEE 802.1P(CoS priority)</li> <li>IEEE 802.1Q</li> <li>IEEE 802.1ad (QinQ), selective QinQ and Vlan mapping</li> <li>DLDLP</li> <li>LLDP</li> <li>Static MAC configuration</li> <li>Limited MAC learning</li> <li>Port mirroring and traffic mirroring</li> <li>Port aggregation, port isolation, and port mirroring</li> <li>IEEE 802.1D (STP)/802.1w (RSTP)/802.1s (MSTP)</li> <li>IEEE 802.3ad (dynamic link aggregation), static port aggregation, and multi-chassis link aggregation</li> <li>RRPP (Rapid Ring Protection Protocol)</li> <li>Jumbo frame</li> <li>SuperVLAN</li> <li>PVLAN</li> <li>Multicast VLAN+</li> <li>MCE</li> </ul>
Routing	<ul style="list-style-type: none"> <li>Static routing, RIP, OSPF, IS-IS, and BGP4</li> <li>IPv4/IPv6 ECMP</li> <li>VRRP</li> <li>IPv4/IPv6 Policy-based routing</li> <li>IPv4/IPv6 Routing policy</li> <li>IPv6 static routing, RIPng, OSPFv3, IS-ISv6, and BGP4+</li> <li>VRRPv3</li> <li>Pingv6, Tenetv6, FTPv6, TFTPv6, DNSv6, and ICMPv6</li> </ul>
DHCP	<ul style="list-style-type: none"> <li>DHCP Client</li> <li>DHCP Snooping</li> <li>DHCP Snooping option82</li> <li>DHCP Relay</li> <li>DHCP Server</li> <li>DHCP auto-config</li> </ul>
IP routing	<ul style="list-style-type: none"> <li>12K IPv4 routing entries</li> <li>Static routing</li> <li>RIPv1/v2 and RIPng</li> <li>OSPFv1/v2/v3</li> <li>BGP and BGP4+ for IPv6</li> <li>IS-IS</li> <li>VRRP/VRRPv3</li> </ul>
Mirroring	<ul style="list-style-type: none"> <li>Flow mirroring</li> <li>N:4 port mirroring</li> <li>Local port mirroring and remote port mirroring</li> </ul>

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Multicast	PIM-DM, PIM-SM, PIM-SSM, MSDP, MBGP, and Any-RP IGMP V1/V2/V3 and IGMP V1/V2/V3 snooping PIM6-DM, PIM6-SM, and PIM6-SSM MLD V1/V2 and MLD V1/V2 snooping Multicast policies and Multicast QoS
IRF	IRF2 Distributed device management, distributed link aggregation, and distributed resilient routing Stacking through standard Ethernet interfaces Local device stacking and remote device stacking
Security	Hierarchical user management and password protection AAA authentication support RADIUS authentication HWTACACS SSH2.0 Port isolation 802.1X authentication, centralized MAC authentication Port security IP Source Guard HTTps Hierarchical user management and password protection 802.1X authentication and centralized MAC address authentication Guest VLAN Portal authentication DHCP snooping Dynamic ARP detection BPDU guard and root guard uRPF IP/Port/MAC binding Plaintext authentication and MD5 authentication for OSPF and RIPv2 packets Public Key Infrastructure (PKI)
ACL/QoS	Standard and extended ACLs Ingress and egress ACLs VLAN ACLs Global ACLs Diff-Serv QoS SP, WRR, SP+WRR, CBWFQ Traffic shaping Congestion avoidance Priority marking and remarking 802.1p, TOS, DSCP, and EXP priority mapping
System Management	Loading and upgrading through XModem/FTP/TFTP SNMP v1/v2/v3 sFlow RMON NTP clocks Fault alarm and automatic fault recovery System logs Device status monitoring mechanism, including the CPU engine, backplane, chips and other key components

Network Management	Command line interface (CLI) configuration Telnet remote configuration Configuration via console port SNMP v1/v2/v3 System log Power, fan, temperature alarm
HA	1+1 redundancy for key components such as MPUs 1+1 redundancy for power modules Passive backplane Hot swapping for all components Real-time data backup on active/standby MPUs CPU protection VRRP Hot patching Ethernet OAM (802.1ag and 802.3ah) RRPP/ERPS VCT Smart-Link ISSU

## General

Thunderproof	Common mode: 2kV Differential mode: 1kV
Fully loaded weight	64.5 kg (142.20 lb)
Gross Weight	90.5 kg (199.52 lb)
Product Dimensions	620 mm × 440 mm × 660 mm (24.41" × 17.32" × 25.98" )
Packaging Dimensions	870 mm × 790 mm × 870 mm (34.25" × 31.10" × 14.57")