

- High performance (up to 1.6 Tbps)
- Non-blocking architecture
- L3 switch
- Stacking up to 8 devices
- Power supply redundancy
- Front-to-Back cooling



MES5320-24 switch is a high performance device with 25GBASE-R and 100GBASE-R4 interfaces that can be used as aggregation switch in carrier networks and as Top-of-Rack or End-of-Row switch for data centers.

The non-blocking architecture guarantees lossless packet forwarding at wire speed with minimum and predictable delays for all types of traffic.

Front-to-Back ventilation provides effective cooling when using the device in modern data centers.

Fault tolerance of the device is ensured by redundant power supplies (1+1) and the use of replaceable fans. The redundant and hot-swappable fans and AC/DC power supplies along with advanced hardware monitoring functions provide high reliability and uninterrupted services.

The device supports EVPN/VXLAN technology to create networks with simple, high-performance and scalable data center architecture.

Technical features

Interfaces	
10/100/1000BASE-T (OOB)	1
1000BASE-X (SFP)/10GBASE-R (SFP+)/25GBASE-R (SFP28)	24
40GBASE-R4 (QSFP+)/100GBASE-R4 (QSFP28)	2
USB 2.0	1
Console port RS-232 (RJ-45)	1
Performance	
Bandwidth	1.6 Tbps
Throughput for 64 bytes ¹	406.25 MPPS
Buffer memory	8 MB
RAM (DDR4)	8 GB
ROM (embedded uSSD)	8 GB
MAC table	131072
ARP table ²	131005
VLAN table	4094
L2 Multicast groups	2046
SQinQ rules	1320 (ingress), 1320 (egress)
MAC ACL ³ rules	6070
IPv4/IPv6 ACL ³ rules	6070/3035
L3 IPv4 Unicast ⁴	32733
L3 IPv6 Unicast ⁴	8180

¹Values are given for one-way transmission.

²For each host in the ARP table, an additional entry is created in switching table.

³The number of MAC/IPv4/IPv6 ACL rules with EVPN license installed is 6070/6070/3035.

⁴IPv4/IPv6 Unicast/Multicast routes share hardware resources.

Technical features (continued)

VRRP routers	127
Maximum number of ECMP groups	1024
ECMP routes	64
VRF number	251 (including default VRF)
L3 interfaces	2050
Maximum number of VXLAN	4093
Link Aggregation Groups (LAG)	128, up to 8 ports in one LAG
Quality of Service (QoS)	8 egress queues per port
Jumbo frames	10240 bytes
Stacking	up to 8 devices

Features and capabilities**Interface functions**

- Head-of-line blocking (HOL) protection
- Back pressure
- Auto MDI/MDIX
- Jumbo frames
- Flow Control (IEEE 802.3X)
- Port Mirroring
- Stacking

MAC address functions

- Independent learning mode per VLAN
- MAC Multicast Support
- Configurable MAC address aging time
- Static MAC Entries
- MAC Flapping

VLAN

- Voice VLAN
- IEEE 802.1Q
- Q-in-Q
- Selective Q-in-Q
- GVRP

L2 Multicast functions

- Multicast profiles
- Static Multicast groups
- IGMP Snooping v1,2,3
- Port/host-based IGMP Snooping Fast Leave
- PIM-Snooping
- IGMP authorization via RADIUS
- MLD Snooping v1,2
- IGMP Querier

L2 functions

- STP (Spanning Tree Protocol, IEEE 802.1d)
- RSTP (Rapid Spanning Tree Protocol, IEEE 802.1w)
- MSTP (Multiple Spanning Tree Protocol, IEEE 802.1s)

- Spanning Tree Fast Link option
- STP Root Guard
- BPDU Filtering
- STP BPDU Guard
- Loopback Detection (LBD)
- ERPS (G.8032v2)
- Flex-link
- PVSTP+
- RPVSTP+

L3 functions

- Static routing
- Dynamic routing protocols RIPv2, OSPFv2, OSPFv3, IS-IS, BGP¹ (IPv4 Unicast, IPv4 Multicast)
- Address Resolution Protocol (ARP)
- VRRP
- PIM SM, PIM DM, IGMP Proxy, MSDP
- BFD (for BGP, OSPF, IS-IS)
- IP Unnumbered
- VRF lite

EVPN/VXLAN²

- L2VPN
- L3VPN

Link Aggregation functions

- LAG Aggregation Groups (LAG)
- LACP
- LAG Balancing Algorithm
- Multi-Switch Link Aggregation Group (MLAG)

IPv6 support

- IPv6 Host
- Dual stack IPv6, IPv4

Service functions

- Optical transceiver diagnostics

¹ BGP support is provided under the license.² EVPN/VXLAN support is provided under the license.

Features and capabilities (continued)

Security functions

- DHCP Snooping
- DHCP Option 82
- IP Source Guard
- Dynamic ARP Inspection
- sFlow
- MAC-based authentication, MAC address limitation, static MAC entries
- Port-based authentication IEEE 802.1x
- Guest VLAN
- DoS attack prevention
- Traffic segmentation
- DHCP clients filtering
- BPDU attack prevention
- NetBIOS/NetBEUI filtering

Access Control Lists (ACL)

- L2-L3-L4 ACL (Access Control List)
- Time-Based ACL
- IPv6 ACL
- ACL based on:
 - Physical port number
 - IEEE 802.1p
 - VLAN ID
 - EtherType
 - DSCP
 - Protocol type
 - TCP/UDP port number

Quality of Service (QoS) and rate limiting

- QoS statistics
- Shaping, Policing
- IEEE 802.1p Class of Service (CoS)
- Broadcast Storm Control
- Bandwidth management
- Strict Priority/Weighted Round Robin (WRR)
- Three marking colors
- ACL-based CoS/DSCP metric assignment
- ACL-based VLAN metric assignment
- Setting the IEEE 802.1p priority for management VLAN
- DSCP to CoS, CoS to DSCP remarking
- 802.1p DSCP mark assignment for IGMP protocol

OAM

- 802.3ah Ethernet Link OAM
- 802.3ah Unidirectional Link Detection

Management functions

- Configuration and firmware download and upload via TFTP/SCP/SFTP
- SNMP
- Command Line Interface (CLI)
- Web interface

- Syslog
- SNTP (Simple Network Time Protocol) client
- NTP (Network Time Protocol) client, NTP server, NTP peer-to-peer
- Traceroute
- LLDP (802.1ab) + LLDP MED
- LLDP (IEEE 802.1ab)
- TACACS+
- Access control — privilege levels
- Management ACL
- Management interface blocking
- Local authentication
- IP address filtering for SNMP
- RADIUS/TACACS+ (Terminal Access Controller Access Control System) client
- SSH server
- Telnet server
- SSL
- Macrocommands
- CLI command logging
- System log
- DHCP auto provisioning
- DHCP Relay (Option 82)
- DHCP Option 12
- DHCP server
- Debugging commands
- Rate limit of traffic to CPU
- Password encryption
- Password recovery
- Ping (IPv4/IPv6)

Monitoring functions

- Interface statistics
- RMON/SMON
- Task and traffic type-based CPU utilization monitoring
- Temperature monitoring
- TCAM monitoring

MIB

- RFC 1065, 1066, 1155, 1156, 2578 MIB Structure
- RFC 1212 Concise MIB Definitions
- RFC 1213 MIB II
- RFC 1215 MIB Traps Convention
- RFC 1493, 4188 Bridge MIB
- RFC 1157, 2571-2576 SNMP MIB
- RFC 1901-1908, 3418, 3636, 1442, 2578 SNMPv2 MIB
- RFC 1271, 1757, 2819 RMON MIB
- RFC 2465 IPv6 MIB
- RFC 2466 ICMPv6 MIB
- RFC 2737 Entity MIB
- RFC 4293 IPv6 SNMP Mgmt Interface MIB
- Private MIB

Features and capabilities (continued)

- RFC 3289 DIFFSERV MIB
- RFC 2021 RMONv2 MIB
- RFC 1398, 1643, 1650, 2358, 2665, 3635 Ether-like MIB
- RFC 2668 IEEE 802.3 MAU MIB
- RFC 2674, 4363 IEEE 802.1p MIB
- RFC 2233, 2863 IF MIB
- RFC 2618 RADIUS Authentication Client MIB
- RFC 4022 MIB for TCP
- RFC 4113 MIB for UDP
- RFC 3298 MIB for Diffserv
- RFC 2620 RADIUS Accounting Client MIB
- RFC 2925 Ping & Traceroute MIB
- RFC 768 UDP
- RFC 791 IP
- RFC 792 ICMPv4
- RFC 2463, 4443 ICMPv6
- RFC 4884 Extended ICMP to support Multi-Part messages
- RFC 793 TCP
- RFC 2474, 3260 Definition of the Differentiated Services Field (DS Field) in the IPv4 and IPv6 headers
- RFC 1321, 2284, 2865, 3580, 3748 Extensible Authentication Protocol (EAP)
- RFC 2571-2574 SNMP
- RFC 826 ARP
- IEC 61850

Physical parameters

Physical specifications and environmental parameters

Power supply	100–240 V AC, 50–60 Hz 36–72 V DC power supply options: • one AC/DC power supply • two AC/DC hot-swappable power supplies
Input current	1.75–0.55 A for AC 4–2 A for DC
Maximum power consumption	155 W
Heat dissipation	155 W
Dying Gasp support	no
Operating temperature	from 0 to +45 °C
Storage temperature	from -50 to +70 °C
Operating humidity	no more than 80 % (non-condensing)
Cooling	Front-to-Back, 4 fans
Maximum acoustic noise level	from front panel, max < 54.2 dB from rear panel, max < 61.6 dB
Dimensions (W × H × D)	440 × 44 × 309 mm
Weight	6.1 kg

Ordering information

Name	Description
MES5320-24	Ethernet switch MES5320-24, 1×10/100/1000BASE-T (OOB), 24×1000BASE-X (SFP)/10GBASE-R (SFP+)/25GBASE-R (SFP28), 2×40GBASE-R4 (QSFP+)/100GBASE-R4 (QSFP28), 1×USB 2.0, L3
Related products	
PM160-48/12	Power module PM160-48/12, 36–72 V DC, 160 W
PM165-220/12	Power module PM165-220/12, 100–240 V AC, 165 W
Related software	
ECCM-MES5320-24	ECCM-MES5320-24 option of Eltex ECCM system for Eltex network elements management and monitoring: 1 network element MES5320-24

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Eltex Enterprise is a leading Russian developer and manufacturer of communication equipment with 30 years of history. Complete solutions and their seamless integrability into the Customer's infrastructure are the priority growth areas of the company.