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# Extreme SLX-OS Scale and Standards Matrix for SLX 9140 and SLX 9240

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# Document history

<b>Version</b>	<b>Summary of changes</b>	<b>Publication date</b>
1.0	Initial Release	November 15, 2018

# Preface

## Contacting Extreme Technical Support

As an Extreme customer, you can contact Extreme Technical Support using one of the following methods: 24x7 online or by telephone. OEM customers should contact their OEM/solution provider.

If you require assistance, contact Extreme Networks using one of the following methods:

- GTAC (Global Technical Assistance Center) for immediate support
- Phone: 1-800-998-2408 (toll-free in U.S. and Canada) or +1 408-579-2826. For the support phone number in your country, visit: [www.extremenetworks.com/support/contact](http://www.extremenetworks.com/support/contact).
- Email: support@extremenetworks.com. To expedite your message, enter the product name or model number in the subject line.
- GTAC Knowledge - Get on-demand and tested resolutions from the GTAC Knowledgebase, or create a help case if you need more guidance.
- The Hub - A forum for Extreme customers to connect with one another, get questions answered, share ideas and feedback, and get problems solved. This community is monitored by Extreme Networks employees, but is not intended to replace specific guidance from GTAC.
- Support Portal - Manage cases, downloads, service contracts, product licensing, and training and certifications.

Before contacting Extreme Networks for technical support, have the following information ready:

- Your Extreme Networks service contract number and/or serial numbers for all involved Extreme Networks products
- A description of the failure
- A description of any action(s) already taken to resolve the problem
- A description of your network environment (such as layout, cable type, other relevant environmental information)
- Network load at the time of trouble (if known)
- The device history (for example, if you have returned the device before, or if this is a recurring problem)
- Any related RMA (Return Material Authorization) numbers

## Extreme resources

Visit the Extreme website to locate related documentation for your product and additional Extreme resources.

White papers, data sheets, and the most recent versions of Extreme software and hardware manuals are available at [www.extremenetworks.com](http://www.extremenetworks.com). Product documentation for all supported releases is available to registered users at [www.extremenetworks.com/support/documentation](http://www.extremenetworks.com/support/documentation).

## Document feedback

Quality is our first concern at Extreme, and we have made every effort to ensure the accuracy and completeness of this document. However, if you find an error or an omission, or you think that a topic needs further development, we want to hear from you.

You can provide feedback in two ways:

- Use our short online feedback form at <http://www.extremenetworks.com/documentation-feedback-pdf/>
- Email us at [internalinfodev@extremenetworks.com](mailto:internalinfodev@extremenetworks.com)

Provide the publication title, part number, and as much detail as possible, including the topic heading and page number if applicable, as well as your suggestions for improvement.

# RFC Compliance

## General Protocols

- RFC 768 User Datagram Protocol (UDP)
- RFC 783 TFTP Protocol (revision 2)
- RFC 791 Internet Protocol (IP)
- RFC 792 Internet Control Message Protocol (ICMP)
- RFC 793 Transmission Control Protocol (TCP)
- RFC 826 ARP
- RFC 854 Telnet Protocol Specification
- RFC 894 A Standard for the Transmission of IP Datagram over Ethernet Networks
- RFC 959 FTP
- RFC 1027 Using ARP to Implement Transparent Subnet Gateways (Proxy ARP)
- RFC 1112 IGMP v1
- RFC 1157 Simple Network Management Protocol (SNMP) SNMP v1 and v2c
- RFC 1305 Network Time Protocol (NTP) Version 3
- RFC 1492 TACACS+
- RFC 1519 Classless Inter-Domain Routing (CIDR)
- RFC 1584 Multicast Extensions to OSPF
- RFC 1765 OSPF Database Overflow
- RFC 1812 Requirements for IP Version 4 Routers
- RFC 1997 BGP Communities Attribute
- RFC 1908 Coexistence between Version 1 and Version 2 of the Internet-standard Network Management Framework
- RFC 2068 HTTP Server
- RFC 2131 Dynamic Host Configuration Protocol (DHCP)
- RFC 2154 OSPF with Digital Signatures (Password, MD-5)
- RFC 2236 IGMP v2
- RFC 2267 Network Ingress Filtering Option—Partial Support
- RFC 2328 OSPF v2
- RFC 2370 OSPF Opaque Link-State Advertisement (LSA)
- RFC 2375 IPv6 Multicast Address Assignments
- RFC 2439 BGP Route Flap Damping
- RFC 2460 Internet Protocol, Version 6 (v6) Specification (on management interface)
- RFC 2462 IPv6 Stateless Address Auto-Configuration
- RFC 2464 Transmission of IPv6 Packets over Ethernet Networks (on management interface)
- RFC 2474 Definition of the Differentiated Services Field in the IPv4 and IPv6 Headers
- RFC 2571 An Architecture for Describing SNMP Management Frameworks
- RFC 2578 Structure of Management Information Version 2
- RFC 2579 Textual Conventions for SMIv2
- RFC 2580 Conformance Statements for SMIv2

- RFC 2710 Multicast Listener Discovery (MLD) for IPv6
- RFC 2711 IPv6 Router Alert Option
- RFC 2740 OSPFv3 for IPv6
- RFC 2865 Remote Authentication Dial-In User Service (RADIUS)
- RFC 2918 Route Refresh Capability
- RFC 3101 The OSPF Not-So-Stubby Area (NSSA) Option
- RFC 3137 OSPF Stub Router Advertisement
- RFC 3176 sFlow
- RFC 3392 Capabilities Advertisement with BGPv4
- RFC 3410 Introduction and Applicability Statements for Internet Standard Management Framework
- RFC 3411 An Architecture for Describing SNMP Frameworks
- RFC 3412 Message Processing and Dispatching for the SNMP
- RFC 3413 Simple Network Management Protocol (SNMP) Applications
- RFC 3414 User-based Security Model
- RFC 3415 View-based Access Control Model
- RFC 3416 Version 2 of SNMP Protocol Operations
- RFC 3417 Transport Mappings
- RFC 3418 Management Information Base (MIB) for the SNMP
- RFC 3584 Coexistence between Version 1, Version 2, and Version 3 of the Internet-standard Network
- RFC 3587 IPv6 Global Unicast Address Format RFC 4291 IPv6 Addressing Architecture
- RFC 3682 Generalized TTL Security Mechanism for eBGP Session Protection
- RFC 3768 VRRP
- RFC 3826 The Advanced Encryption Standard (AES) Cipher Algorithm in the SNMP User-based Security Model
- RFC 4271 BGPv4
- RFC 4443 ICMPv6 (replaces 2463)
- RFC 4456 BGP Route Reflection
- RFC 4486 Sub Codes for BGP Cease Notification Message
- RFC 4510 Lightweight Directory Access Protocol (LDAP): Technical Specification Road Map
- RFC 4724 Graceful Restart Mechanism for BGP
- RFC 4750 OSPFv2 MIB
- RFC 4861 IPv6 Neighbor Discovery
- RFC 4893 BGP Support for Four-Octet AS Number Space
- RFC 5065 BGP4 Confederations
- RFC 5082 Generalized TTL Security Mechanism (GTSM)
- RFC 5291 Outbound Route Filtering Capability for BGP-4
- RFC 5396 Textual Representation of Autonomous System (AS) Numbers
- RFC 5668 4-Octet AS specific BGP Extended Community
- RFC 5880 Bidirectional Forwarding Detection (BFD)
- RFC 5881 Bidirectional Forwarding Detection (BFD) for IPv4 and IPv6 (Single Hop)



- RFC 5882 Generic Application of Bidirectional Forwarding Detection (BFD) RFC 5883 Bidirectional Forwarding Detection (BFD) for Multihop Paths
- RFC 5942 IPv6 Neighbor Discovery
- RFC 7348 Virtual eXtensible Local Area Network (VxLAN)
- RFC 7432 BGP-EVPN—Network Virtualization Using VXLAN Data Plane
- RFC 8326 Graceful BGP Session Shutdown
- DRAFT: BGP EVPN with VxLAN Encapsulation : IETF Draft describing usage of BGP EVPN with VxLAN Data Plane
- DRAFT: BGP EVPN Inter Subnet Forwarding : IETF Draft describing inter-subnet forwarding support using BGP EVPN Control Plane
- DRAFT: BGP EVPN Prefix Advertisement : IETF Draft describing advertisement of IP Prefix routes using BGP EVPN Control Plane
- DRAFT: IGMP and MLD Proxy for EVPN draft-ietf-bess-evpn-igmp-mld-proxy-00

## SSH/SCP/SFTP

- RFC 4250 Secure Shell (SSH) Protocol Assigned Numbers
- RFC 4251 Secure Shell (SSH) Protocol Architecture
- RFC 4252 Secure Shell (SSH) Authentication Protocol
- RFC 4253 Secure Shell (SSH) Transport Layer Protocol
- RFC 4254 Secure Shell (SSH) Connection Protocol
- RFC 4344 SSH Transport Layer Encryption Modes
- RFC 4419 Diffie-Hellman Group Exchange for the Secure Shell (SSH) Transport Layer Protocol

## MIBs

- RFC 2674 Bridge MIB
- RFC 2819 RMON Groups 1, 2, 3, 9
- RFC 2863 The Interfaces Group MIB
- RFC 3176 SFLOW-MIB ver 1.3 (draft 5)
- RFC 3826 SNMP-USM-AES-MIB
- RFC 4022 TCP MIB
- RFC 4113 UDP MIB
- RFC 4133 Entity MIB (Version 3)
- RFC 4188 BRIDGE-MIB
- RFC 2674 P-BRIDGE-MIB
- RFC 4363 Q-BRIDGE-MIB
- RFC 4318 RSTP-MIB
- IEEE LAG-MIB
- IEEE LLDP-MIB
- IEEE LLDP-EXT-DOT1-MIB
- IEEE LLDP-EXT-DOT3-MIB

- RFC 4273 BGP-4 MIB
- RFC 4292 IP Forwarding MIB
- RFC 4293 IP MIB
- RFC 4750 OSPFv2 MIB
- RFC 7331 BFD MIB

## Virtualization Support

- VXLAN Routing
- VXLAN Bridging
- VXLAN Tunnel End Point
- VXLAN Multi-VN

## Layer 2 Switching

- Conversational MAC Learning
- Virtual Link Aggregation Group (vLAG) spanning
- Layer 2 Access Control Lists (ACLs)
- Address Resolution Protocol (ARP) RFC 826
- Layer 2 Loop prevention in an overlay environment
- MLD Snooping
- IGMP v1/v2 Snooping
- MAC Learning and Aging
- Link Aggregation Control Protocol (LACP) IEEE 802.3ad/802.1AX
- Virtual Local Area Networks (VLANs)
- VLAN Encapsulation 802.1Q
- Per-VLAN Spanning Tree (PVST+/PVRST+)
- Rapid Spanning Tree Protocol (RSTP) 802.1w
- Multiple Spanning Tree Protocol (MSTP) 802.1s
- STP PortFast, BPDU Guard, BPDU Filter
- STP Root Guard
- Pause Frames 802.3x
- Static MAC Configuration
- Multi-Chassis Trunking (MCT)
- BD support
- VXLAN extension tunnels
- Overlay services: overlay gateway instances, overlay transit instances (on spine nodes)
- Link-fault signaling
- IP-based management cluster

## Layer 3 Routing

- Border Gateway Protocol (BGP4+)
- DHCP Helper
- Layer 3 ACLs
- IGMPv2
- OSPF v2/v3
- Static routes
- IPv4/v6 ACL
- Bidirectional Forwarding Detection (BFD)
- 64-Way ECMP
- VRF Lite
- VRF-aware OSPF, BGP, VRRP, static routes
- VRRP v2 and v3
- IPv4/IPv6 dual stack
- ICMPv6 Route-Advertisement Guard
- Route Policies
- IPv6 ACL packet filtering
- BGP Additional-Path
- BGP-Allow AS
- BGP Generalized TTL Security Mechanism (GTSM)
- BGP Peer Auto Shutdown
- IPv6 routing
- OSPF Type-3 LSA Filter
- Wire-speed routing for IPv4 and IPv6 using any routing protocol
- BGP-EVPN Control Plane Signaling RFC 7432
- BGP-EVPN VXLAN Standard-based Overlay
- Multi-VRF
- IP Unnumbered Interface
- VRRP-E
- Anycast Gateway over VXLAN
- L3 over Bridge Domain

## Automation and Programmability

- gRPC Streaming protocol and API
- REST API with YANG data model
- Python
- PyNOS libraries
- DHCP automatic provisioning
- NETCONF API

## High Availability

- BFD

## Quality of Service

- ACL-based QoS
- Two Lossless priority levels for QoS
- Class of Service (CoS) IEEE 802.1p
- DSCP Trust
- COS Trust
- DSCP to Traffic Class Mutation
- DSCP to CoS Mutation
- COS to COS Mutation
- DSCP to DSCP Mutation
- COS to Traffic class mutation
- COS to DSCP Mutation
- Random Early Discard
- Per-port QoS configuration
- ACL-based Rate Limit
- ACL-based remarking of CoS/DSCP/Precedence
- ACL-based sFlow
- Dual-rate, three-color token bucket
- Storm-Control
- Scheduling: Strict Priority (SP), Deficit Weighted Round-Robin (DWRR)

## Management and Monitoring

- Zero-Touch Provisioning (ZTP)
- IPv4/IPv6 management
- Industry-standard Command Line Interface (CLI)
- NETCONF API
- REST API with YANG data model
- SSH/SSHv2
- Link Layer Discovery Protocol (LLDP) IEEE 802.1AB
- MIB II RFC 1213 MIB
- Syslog (RASlog, AuditLog)
- Management VRF
- Switched Port Analyzer (SPAN)
- Telnet
- SNMP v1, v2C, v3
- sFlow version 5
- Out-of-band management
- RMON-1, RMON-2
- NTP
- Management Access Control Lists (ACLs)

- Role-Based Access Control (RBAC)
- Range CLI support
- Python
- DHCP Option 82 Insertion
- DHCP Relay
- Timestamping
- 1588v2 PTP
- Guest VM support
- SLX-OS and Linux Shell Interoperability

## Security

- AAA
- Port-based Network Access Control 802.1X
- RADIUS
- TACACS+
- Secure Shell (SSHv2)
- TLS 1.1, 1.2
- HTTP/HTTPS
- BPDU Drop
- Lightweight Directory Access Protocol (LDAP)
- Secure Copy Protocol
- Control Plane Policing (CPP)
- LDAP/AD
- SFTP
- Port Security

# SLX-OS IEEE standards compliance

- IEEE 802.1D Spanning Tree Protocol
- IEEE 802.1s Multiple Spanning Tree
- IEEE 802.1w Rapid Reconfiguration of Spanning Tree Protocol
- IEEE 802.3 Ethernet
- IEEE 802.3ad Link Aggregation with LACP
- IEEE 802.3ab 1000BASE-T
- IEEE 802.3z 1000BASE-X
- IEEE 802.3ba / 80 2.3bm 40 GBASE-X and 100 GBASE-X
- IEEE 802.1Q VLAN Tagging
- IEEE 802.1p Class of Service Prioritization and Tagging
- IEEE 802.1v VLAN Classification by Protocol and Port
- IEEE 802.1AB Link Layer Discovery Protocol (LLDP)
- IEEE 802.3x Flow Control (Pause Frames)
- IEEE 802.3ae 10 GBASE-X
- IEEE 802.3 10 GBASE-T (up to 100 m using Cat6a cabling or better)

# Scalability Matrix for SLX 9140 & SLX 9240

**NOTE:** The following scale numbers are the maximum values for the above platforms, independent of where they reside in the network.

		Extreme Switching SLX 9140	Extreme Switching SLX 9240
<b>LAYER 2 SWITCHING</b>			
MAC	Maximum Number of MACs per port (physical/LAG/MLAG)	94K	29K
	Maximum Number of MACs per System	94K	29K
VLANs	Maximum Number of VLANs per interface	4k	4k
	Maximum number of VLANs per trunk port	4k	4k
	Maximum Number of port-vlan associations	64k	32k
	Maximum Number of VLANs per switch	4k	4k
	Maximum Number of 802.1Q VLANs w/o TLS	4k	4k
Bridge Domain(BD)	Maximum Number of BDs per box	4k	3.5k
LACP	Maximum Number of ports per port-channel per switch	64	64
	Maximum Number of port-channels per switch	64	128
STP/RSTP	Maximum Number of physical ports supported with STP	72	128
	Maximum Number of 8-port LAG interface supported with STP	9	16
MSTP	Maximum Number of instances	32	32
	Maximum Number of VLANs per instance	50	50
	Maximum Number of physical interfaces participating per instance	72	128
	Maximum Number of LAG interfaces participating per instance	72	128
PVST	Maximum number of VLANs	128	128
	Maximum number of interfaces	72	128
	Maximum number of instance	128	128
MCT	MCT Member VLANs s	4k	2k
	MCT MAC Scale	96K	28k
	MCT Switch Clients	36	36
LLDP	Maximum Number of neighbors per switch	72	128
	Number of neighbors per interface	1	1
	Number of active profiles (one per interface)	72	128
VXLAN	VXLAN L2 Gateway (Tunnels)	2K*	2K*
	Number of VLAN/BD extended over VXLAN	4k/4k	4k/3.5k
<b>Multicast</b>			
IGMP	IGMPv2 snooping VLAN interfaces supported	512	512
	IGMPv2 snooping VLAN interfaces supported (MCT)	512*	512*

	Learning rate for IGMPv2 snooping	512 groups per second	512 groups per second
	Maximum number of IGMP groups per system	8k	3k
MLD	Maximum number of MLD groups per system	5k	1k
	MLD snooping VLAN interfaces supported	128	128
<b>IPv4 and IPv6</b>			
IPV4 Features	Maximum VEs per system	2k	2k
	Number of VEs VRF	2k	2k
	# of ARP entries	96k	16k
	# of unique next hop routers	2k	256
	# static route	16K	16K
	# of routes in HW	64k	48k
	ECMPs for Static route	64	64
	#VRFs with Static Routing	512	128
	# of routes in SW	64k	48k
	# of VRF	512	128
	# of ECMP	64	64
VRRP	# of VRRP instances per system (MCT mode)	512 (IPV4+ IPV6)	512 (IPv4)
	# of VRRP instances per interface (MCT mode)	32	32
	# of VRRP routers (MCT mode)	8	8
	# of VRRPv3 instance	512	512
IPv6 Features	Number of VEs	2k	2k
	Number of VEs VRF	2k	2k
	Number of ND Entries	32k	8k (1k subnets)
	IPv6 Routes	16k	8k
	FIB, H/W Routes	16k	8k
	Static Routes with ECMP	64	64
	# of IP interfaces (Routed ports) per system	2k	2k
	# of Secondary IP address	255	255
	Max # IP address in HW	16k	8k
	Number of maximum unique next hops	2k	2k
	Static Routes	3k	3k
	# of VRF with Static Routing	512	128
	# of VRF	512	128
	# of ECMP	64	64
<b>Routing Protocols</b>			
BGP IPv4	# of IBGP Peers (No. of BGP sessions)	512	256
	# of EBGP Peers (No. of BGP sessions)	512	256
	# of RIB in + out routes	3.25M	320k
	BGP v4 Routes	64k	64k



	# of Max BGP Peer Group	250	250
	Maximum paths(ECMP) with BGP	64	64
BGP IPv6	# of IBGP Peers (No. of BGP sessions)	512	256
	# of EBGP Peers (No. of BGP sessions)	512	256
	# of RIB in + out routes	1M	100k
	BGP v6 Routes	16k	8k
OSPF	# of OSPF areas	200	200
	# of OSPF routers in a single area	200	200
	# of OSPF adjacencies	200	200
	# of OSPF neighbors	200	200
	# of OSPF routes	25k	25k
	# of OSPF interfaces	200	200
	# of OSPF enabled subnets	200	200
	# of local subnets in a single area	200	200
	intra area routes with min neighbors	25k	25k
	inter area routes with min neighbors	25k	25k
	external routes with min neighbors	25k	25k
	# of VRFs supported by OSPF	128	128
	OSPFv2 with ECMP	64	64
OSPFv3	OSPFv3 Interfaces	200	200
	OSPFv3 Routes	8k	8k
	OSPF Neighbors	200	200
	intra area routes with min neighbors	200	200
	inter area routes with min neighbors	200	200
	external routes with min neighbors	16k	16k
	OSPFv3 with ECMP	64	64
	OSPFV3 VRF	128	128
BFD	# of Static BFD sessions- Default Timers (IPv4)	250	250
	# of OSPF BFD Sessions-Default Timers (IPv4)	200	200
	# of BGP BFD Sessions-Default Timers (IPv4)	250	250
	Static BFD- Default Timers (IPV6)	250	250
	OSPF BFD Sessions-Default Timers (IPv6)	200	200
	BGP BFD Sessions-Default Timers (IPv6)	250	250
	Static Tunnel with BFD		
<b>Security</b>			
Layer 3 ACLs	Maximum ACLs per type (all type) **	512	512
	Maximum ACL rules per system (all type) **	64k	64k
	Maximum rules per ACL **	1K	1k
	Maximum rules in TCAM for ingress ACL ***	1.5k	512
	Maximum rules in TCAM for egress ACL ****	512	512
Layer 2 ACLs	Maximum ACLs per type (all type) **	512	512
	Maximum ACL rules per system (all type) **	16k	16k
	Maximum rules per ACL **	1K	1K
QOS	Maximum Number of Traffic Classes	8	8

	Ingress buffers per ASIC	24MB	24MB
	Egress buffers per ASIC	24MB	24MB
	Number of priorities on which PFC can be enabled on a port	3	3
	Max schedulers on SYSTEM	72	128
	Max shaper per system	72	128
	POLICY-MAP MAX config on SYSTEM (Created in SW globally)	2048	2048
	POLICY-MAP MAX config on SYSTEM (Max applied in HW)	1536	1536
	SERVICE-POLICY - per interface	1	1
	CLASS-MAP MAX config on SYSTEM (Created in SW globally)	2050	2050
	CLASS-MAP MAX config on SYSTEM (Max applied in HW)	1536	1536
	DEFAULT CLASS-MAP per POLICY	1	1
	MATCH ACL CLASS-MAP per POLICY	50	50
	PORT-BASED IN service-policy on SYSTEM	72	128
	MATCH ACL CLASS IN service-policy on SYSTEM	72	128
	STORM-CONTROL (BUM traffic policy)	3 / Port	3 / Port
	Maximum number of ACL table per CLASS	1	1
	Number of Policers	512	512
	Maximum RED profiles configured (SW)	384	384
	Maximum RED profiles configured (HW)	64	64
	PCP->TC	SW MAX =400 & HW application max=6	SW MAX =400 & HW application max=6
	TC->PCP	SW MAX =400 & HW application max=6	SW MAX =400 & HW application max=6
	DSCP->TC	SW MAX =400 & HW application max=7	SW MAX =400 & HW application max=7
	DSCP->DSCP	SW MAX =400 & HW application max=7	SW MAX =400 & HW application max=7
	DSCP->PCP	SW MAX =400 & HW application max=7	SW MAX =400 & HW application max=7

<b>Monitoring</b>			
<b>Mirroring</b>	Mirror Port and Monitor Ports	512	512
	ACL-based Inbound Mirroring	4	4
<b>NPB</b>			
	L2 ACL	512	512
	L2 ACL RULES per ACL	SW = 1024, HW = 512	SW = 1024, HW = 512
	L2 ACL RULES per System	2048	2048
	L3 ACL	512	512
	L3 ACL RULES per ACL	SW = 1024, HW = 512	SW = 1024, HW = 512
	L3 ACL RULES per System	2048	2048
	Number of ports in port-channel	64	64
	User Defined ACL	512	512
	User Defined ACL Rules per system	1024	1024
<b>IP Fabric</b>			
	VXLAN Tunnels	2k	2k
	MAC entries (SW)	200k	64k
	ARP entries (SW)	150k	300k
	ND entries (SW)	50k	NA
	MAC entries (HW)	70k	23k
	ARP entries (HW)	96k	16K
	ND entries (HW)	32k	NA
<b>BGP eVPN</b>	BGP EVPN sessions	256	256
	BGP eVPN v4 route (SW)	300k	300K
	BGP eVPN v6 route (SW)	64k	NA
	BGP eVPN v4 route (HW)	64k	49k
	BGP evpn v6 route (HW)	16k	NA
	BGP evpn MACIP routes (SW)	150k	300k
	BGP evpn MAC routes (SW)	200k	64k
	IP Unnumbered interface	72	128
	ECMP	64	64
	No. of SAG per system	2k	2k
	No. of SAG address per interface	32	32
	No VRFs in BGP eVPN	512	512
	No of VLANs/BD extended	4k/4k	4k/3.5k

**\*New scale numbers supported**