Extreme 8730

Highlights

- 32x400G QSFP-DD with 200G, 100G, 25/10G port speed operations.
- 12.8 TB switching capacity with 80 MB shared packet buffer.
- Cloud-native Extreme ONE OS and cloud-native Extreme Fabric Orchestrator.
- Built for modern Enterprise, Artificial Intelligence (AI), Communication Service Provider (CSP) and Telecom Service provider (ISP) applications.
- Support for EVPN, VXLAN, MLAG based L2 and L3 network architectures.
- Advanced Congestion Management for AI and storage workloads.
- Advanced CPU complex with 24 Cores, 32GB, dual management 2x10G SFP+.
- Advanced timing circuity & connectors (IEEE 1588/PTPv2).
- Baseboard management controller (BMC) for remote chassis management.
- Trusted platform module (TPM)-based hardware Root of Trust.
- Power efficient AC and DC power supplies with forward and reverse airflows.

High performance 400G data center spine and leaf switching

Data centers today demand secure, scalable, and high-performance switching with efficient power use. The next-gen 400G Extreme 8730 switch delivers exceptional density, power efficiency, and flexible connectivity—ideal for high-performance enterprises, hyperscale cloud, and I/O-intensive environments.

Designed for AI and HPC workloads, it ensures consistent low latency, robust traffic management, and seamless scalability. With 400G QSFP-DD interfaces, the 8730 delivers uncompromising performance and enables versatile deployments in modern enterprises, data centers, co-locations, and communication service providers.

Extreme 8730 runs Extreme ONE OS, a cloud-native high-performance network operating system designed for data center, service provider, and enterprise networking environments. Built on a microservices architecture, ONE OS supports full in-service maintainability and is entirely API-driven for both management and programmability.

The 8730's high density (32x400GbE, 128x100GbE), scale-out architecture, leading power efficiency, and flexible airflow options deliver a cost-effective solution that optimizes power, cooling, and data center space. The switch can be deployed to support applications such as AI workloads, secure data center fabric with L2 or L3 based architectures, data center interconnect, and mobile edge computing.

As part of Extreme's Trusted Delivery initiative, the Extreme 8000 Series of Universal switches introduce powerful security enhancements with a combination of Secure Boot technology, enhanced by an industry-first Measured Boot implementation.

Flexible Management

The 8730 can be managed in a variety of ways. Modern gNMI for streaming telemetry, REST management interface or simple on-box management functions are delivered with CLI for manual configuration.

Plug 'n Play Data Center Fabrics with ExtremeCloud Orchestrator

Extreme Cloud Orchestrator simplifies and accelerates the deployment of data center fabric. The on-box application runs as a service on the Integrated Application Hosting environment within the 8730 and uses industry-standard open API-based programmable interfaces to provide the easiest way to deploy, provision, and automate single or multiple data center IP Fabric networks quickly and efficiently Extreme Cloud Orchestrator is also the point of integration for VMware vCenter, Microsoft Hyper-V, and OpenStack.

Built for Modern Enterprise and Data Center Workloads

The 8730 supports the performance, scale, and reliability needed for today's enterprise and AI-driven environments. It delivers high bandwidth and low latency for seamless data movement across compute and storage, making it ideal for real-time analytics, AI training, and data-intensive applications in enterprises and data centers.

With advanced OS capabilities and versatile traffic management, it delivers performance across multiple deployment scenarios.

Secure, Modular, and Cloud Ready Operating System

Designed for agility and resilience, the 8730 Series runs on Extreme ONE OS - an advanced platform powered by a microservices-based architecture. Each service operates independently, enabling rapid updates and zero-impact deployments that keep your network always on. With an API-first framework and support for OpenConfig, integration and automation are simple, enabling customers to scale and evolve the network with confidence. Whether for building out next-gen infrastructure or enhancing security posture, Extreme ONE OS delivers unmatched programmability through REST APIs, Python, and NETCONF/RESTCONF - backed by a future-ready foundation that strengthens protection against emerging cyber threats.

High-Availability and Reliability

The 8730 delivers the high performance and reliability required by modern enterprises and service provider data centers. It is designed for high availability from both a software and hardware perspective, such as a clear separation between the control plane and data plane and redundant power supplies and fan modules.

Integrated Application Hosting

The 8730 accelerates next-gen network operations with a high-performance CPU complex capable of running VM-based apps alongside the switch OS—without affecting throughput or latency. Its open design supports Extreme-native or third-party tools directly on the switch for built-in security, monitoring, diagnostics, and control. With dedicated compute, memory, and SSD storage, it enables precise packet capture and offline processing while maintaining control and forwarding plane integrity.

Trusted Delivery

Trusted Delivery from Extreme Networks is designed to protect your key service delivery infrastructure at remote, often unattended sites, as well as within colocation and data center environments where shared facility access is a concern. Measured Boot extends the security posture of the system into the execution of the operating system itself for greater protection against threats. Measured Boot is designed to verify the boot and runtime processes, validating hardware components, boot process, and the operating system from factory to installation. Combined with remote attestation, where a trusted off-box challenger provides an objective measurement of trust, Measured Boot provides ongoing binary-level validation during operation.

Precise Timing

The 8730 switch supports Precision Time Protocol (PTP v2), and Network Time Protocol (NTP) for time synchronization across devices on a network. PTP is used in applications requiring sub-microsecond accuracy and demanding precise timing, such as data centers, mobile networks and industrial automation.

8730 Specifications

Ports	32x400G QSFP-DD (Each port can be channelized into 4x100GbE)
Clock Inputs (IEEE 1588)	RJ45, HD-BNC, and SMA Interfaces: Supports BITS and ToD+ 1PPS via RJ45, 1PPS and 10 MHz I/O through HD-BNC, and GNSS input via SMA
Management Ports	Dual Redundant SFP+ ports with support for Copper SFP+ (CuSFP)
Power Supplies	Modular 1600W AC power supply (up to 2 PSUs), N+1 Redundant
Fan Tray	7 Fans installed, N+1 Redundant. Front-Back and Back-Front airflow options
Dimensions	439.7 mm (W) × 632.5 mm (D) × 43.4 mm (H)
Weight	28.0 lb (12.7 kg) with no PSU / 32.4 lb (14.7 kg) with two PSU
Performance	Line rate 25.6 Tbps Switching Capacity (12.8 Tbps ingress, 12.8 Tbps egress)
Packet Buffers	80MB shared across all input ports
CPU/Memory/Storage	24 Cores, 32 GB ECC Enabled DDR4, 256 GB Storage
Operating Conditions	0 °C (32 °F) to 40 °C (104 °F) up to 2,000 m (6,000 ft)

Power and Heat Dissipation

Switch Model	Minimum Heat Dissipation (BTU/hr) (Idle, no ports linked)	Minimum Power Consumption (Watts) (Idle, no ports linked)	Maximum Heat Dissipation (BTU/hr) (Fans high, all ports 100% traffic)	Maximum Power Consumption (Watts) (Fans high, all ports 100% traffic)
8730-32D	1,710	501	4,680	1370

Max 8730-32D Power Consumption (Watts)	Vin (Vrms)	Max AC PSU Power Output per AC PSU (W)	Minimum Number of AC PSUs Required	N+1 Redundancy
1,371.95	100-127	1,000	2	Yes
1,371.95	200-240	1,600	1	Yes

Power Supply Specifications

	1600W AC PSU XN-ACPWR-1600W-F/R-A	1600W DC PSU XN-DCPWR-1600W-F/R-A
Dimensions	2.145 in W x 1.57 in H x 13.85 in D (5.45 cm x 4.0 cm x 35.2 cm)	2.145 in W x 1.57 in H x 13.85 in D (5.45 cm x 4.0 cm x 35.2 cm)
Weight	2.69 lb (1.22 kg)	2.77 lb (1.26 kg)
Voltage Input Range	100-127 VAC / 200-240 VAC	-40 to -75 VDC
Line Frequency Range	50-60Hz	N/A
PSU Input Socket	IEC 320 C16 IEC 320 C14	Terminal Block
PSU Output Cord	IEC 320 C15 IEC 320 C13	N/A
Operating Conditions	0°- 45°C operation	0°- 45°C operation

Technical Specifications

Advanced Timing Specifications*

Integrated GNSS receiver

IEEE 1588v2 PTP support (Telecom profiles G.8265.1, G.8275.1, and G8275.2)

SMPTE profile for professional broadcast environment AES67 Media Profile (AES67-2018)

IEEE Std 802.1AS (IEEE Std 802.1AS-2020)

SyncE on all interfaces G.8262, G.8264·G.8275.1 with G.8273.2 Class C compliant

Environmental Specifications

EN/ETSI 300 019-2-1 v2.1.2 - Class 1.2 Storage

EN/ETSI 300 019-2-2 v2.1.2 - Class 2.3 Transportation

EN/ETSI 300 019-2-3 v2.1.2 - Class 3.1e Operational

EN/ETSI 300 753 (1997-10) - Acoustic Noise

ASTM D3580 Random Vibration Unpackaged 1.5 G

Environmental Compliance

EU RoHS 2011/65/EU EU WEEE 2012/19/EU

China RoHS 2 GB/T 26572 Taiwan RoHS CNS 15663(2013.7)

IEEE Compliance*

IEEE 802.1D Spanning Tree Protocol

IEEE 802.1s Multiple Spanning Tree

IEEE 802.3 Ethernet

IEEE 802.3ad Link Aggregation with LACP

IEEE 802.3ae 10G Ethernet

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)

Layer 2 Switching

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

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)

Layer 3 Routing

Wire-speed routing for IPv4 and IPv6

Border Gateway Protocol (BGP4+)

BGP Additional-Path, Allow AS, Generalized TTL Security Mechanism (GTSM), Peer Auto Shutdown

BGP-EVPN Control Plane Signaling RFC 7432

BGP-EVPN VXLAN Standard-based Overlay

OSPF v2/v3*

OSPF Type-3 LSA Filter

Static routes

Route Policies

64-Way ECMP

DHCP Relay*

Layer 3 (IPv4/IPv6) ACLs & Packet Filtering

VRF Lite, VRF-aware OSPF, BGP, VRRP, static routes

VRRP v2 and v3, VRRP-E*

IPv4/IPv6 dual stack

ICMPv6 Route-Advertisement Guard

Multi-VRF

IP Unnumbered Interface

Automation and Programmability

gRPC Streaming protocol and API REST API with YANG data model Python

PyNOS libraries

DHCP automatic provisioning

NETCONF API

High Availability

Bidirectional Forwarding Detection (BFD)

Quality of Service

ACL-based QoS

Class of Service (CoS) IEEE 802.1p

DSCP Trust

DSCP to Traffic Class Mutation

DSCP to CoS Mutation

DSCP to DSCP Mutation

Random Early Discard

Per-port QoS configuration

ACL-based Rate Limit

Dual-rate, three-color token bucket

ACL-based remarking of CoS/DSCP/Precedence

ACL-based sFlow

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)

gRPC/GNMI (Get, Set, Subscription)

OpenConfig

SSH/SSHv2

Link Layer Discovery Protocol (LLDP) IEEE 802.1AB

SNMPv1, v2c, v3

MIB II RFC 1213 MIB

Syslog (RASlog, AuditLog)

Config file management

SNMPv1, v2c, v3

Out-of-band & In band management

NTP

Management Access Control Lists (ACLs)

Python

DB migration

DHCP Option 82 Insertion*

DHCP Relay

Switched Port Analyzer (SPAN)

Timestamping

sFlow version 5

Security

RADIUS

AAA

TACACS+

Secure Shell (SSHv2)

SFTP

TLS 1.1,1.2, 1.3

Lightweight Directory Access Protocol (LDAP)

Active Directory (AD)

Secure Copy Protocol

Certificate management

Token manager

User management

Password management

Port-based Network Access Control 802.1X

Port Security

Control Plane Policing (CPP)

BPDU Drop

*Check for feature availability on OS version.

Ordering Information

Part Number	Description
8730-32D-AC-F	32x400G Chassis, 2x AC 1600W PSU, Front to Back Airflow
8730-32D-AC-R	32x400G Chassis, 2x AC 1600W PSU, Back to Front Airflow
8730-32D-DC-F	32x400G Chassis, 2x DC 1600W PSU, Front to Back Airflow
8730-32D-DC-R	32x400G Chassis, 2x AC 1600W PSU, Back to Front Airflow
8730-32D	32x400G Chassis, No PSU, No FAN
8000-PRMR-LIC-P	Premier license for 8000 Series (Includes Integrated Application Hosting)

Accessories

Partner Number	Description
XN-ACPWR-1600W-FB-A	1600W AC PSU Front to Back Airflow
XN-ACPWR-1600W-BF-A	1600W AC PSU Back to Front Airflow
XN-DCPWR-1600W-FB-A	1600W DC PSU Front to Back Airflow
XN-DCPWR-1600W-BF-A	1600W DC PSU Front to Back Airflow
XN-FAN-006-FB	Fans with Front to Back Airflow
XN-FAN-006-BF	Fans with Back to Front Airflow

Optics/Transceivers

For a list of the optics/transceivers supported on the 8730 Series, refer to our Extreme Optics Compatibility Tool.

Power Cords

In support of Extreme Networks green initiatives, power cords are not included with the 8730 but can be ordered separately. They should be specified at time of ordering.

Warranty

All 8730 Series models are covered under Extreme's Universal LLW policy. For warranty details, visit: http://www.extremenetworks.com/support/policies

Maintenance Services

Extreme's maintenance and support services with 100% in-sourced engineering experts and over 90% first-person resolution ensure efficient operation of your business-essential network. 24x7x365 phone support, advanced parts replacement, and on-site support augment your staff with experienced resources that help you mitigate critical network issues fast. Visit our ExtremeWorks Maintenance Services page for more information.