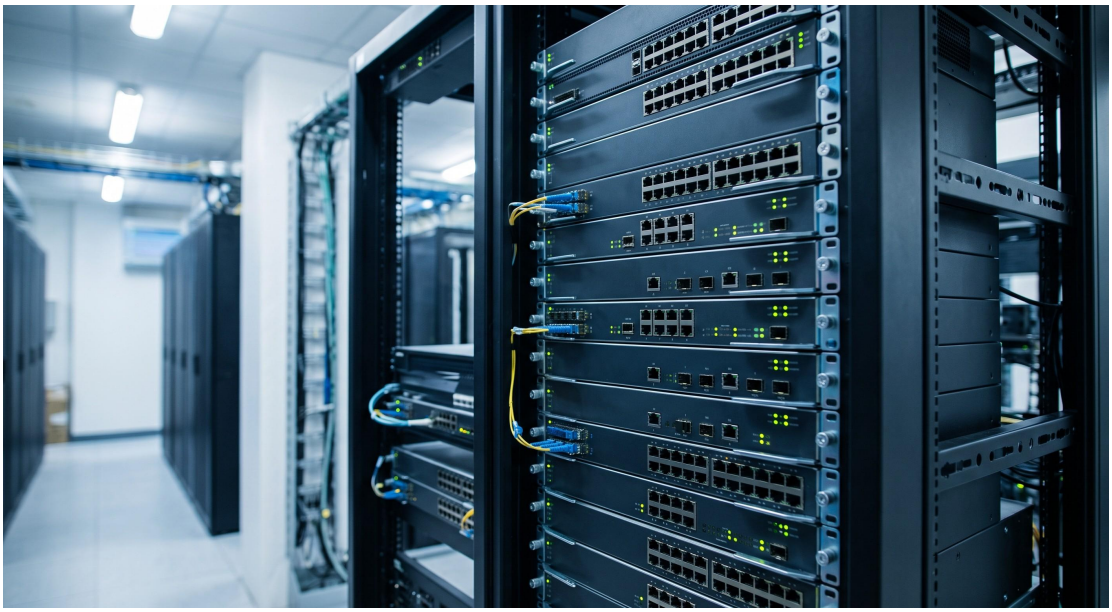
XPONSHOP Strategic Sourcing Line Card: Available Inventory Brands and Model Matrix - Official Technical Overview & Hardware Datasheet

EXECUTIVE SUMMARY

The XPONSHOP Strategic Sourcing Line Card represents a comprehensive, multi-vendor hardware inventory matrix engineered to address the critical procurement requirements of telecom operators, managed service providers, and enterprise network architects. This datasheet provides an authoritative technical overview of the available inventory brands and model configurations, enabling network planners to evaluate, specify, and deploy carrier-grade routing and switching platforms with confidence.

The XPONSHOP Strategic Sourcing Line Card is not a single device but a curated, dynamically maintained portfolio of OEM hardware spanning access, aggregation, and core layers. This document details the interfacing capabilities, silicon-level performance characteristics, and compliance posture of the sourcing matrix, ensuring that every deployed unit meets the rigorous demands of modern packet-optical transport networks.



HARDWARE ARCHITECTURE & SILICON

Each hardware platform referenced within the XPONSHOP Strategic Sourcing Line Card is selected based on its underlying switching ASIC architecture and forwarding engine capabilities. The inventory encompasses devices powered by industry-leading silicon solutions capable of line-rate Layer 2 and Layer 3 forwarding, with deep packet buffer architectures designed to eliminate microburst-induced congestion in high-density aggregation scenarios.

The sourcing matrix includes platforms featuring both fixed-form-factor and modular chassis designs. Fixed 1RU platforms deliver high-density 10G/25G/40G/100G interfaces for leaf-spine and top-of-rack deployments, while modular chassis-based systems provide scalable slot capacity for core and aggregation roles, supporting redundant control plane processors, switch

fabrics, and power subsystems.

KEY FEATURES & ROUTING LOGIC

- Multi-Vendor Inventory Matrix: The XPONSHOP Strategic Sourcing Line Card aggregates available inventory across multiple tier-one OEM brands, providing procurement flexibility without compromising technical standards.
- Non-Blocking Forwarding: All listed platforms support non-blocking, line-rate forwarding across all ports, ensuring zero oversubscription in fully populated configurations.
- Advanced Routing Stack: Comprehensive support for IPv4/IPv6 unicast and multicast routing, MPLS, VPLS, BGP, OSPF, IS-IS, and segment routing protocols.
- High-Availability Design: Redundant, hot-swappable power supplies and fan trays, with hitless software upgrade capabilities and sub-second failover for critical control plane functions.
- Transceiver Flexibility: Broad compatibility with SFP, SFP+, QSFP+, QSFP28, and QSFP-DD optics, enabling seamless migration from 1G to 400G interfaces.
- Strategic Sourcing Advantage: Real-time inventory visibility across brands and models, reducing lead times and mitigating supply chain risk for network expansion projects.

COMPLIANCE & STANDARDS

The XPONSHOP Strategic Sourcing Line Card inventory is strictly limited to hardware platforms that hold current certifications for the following standards:

- IEEE 802.1Q, 802.1ad, 802.1ah, 802.3ae, 802.3ba, 802.3by, 802.3cd
- MEF CE 2.0, MEF 3.0
- IEC 60950-1, IEC 62368-1 Safety
- EN 55032, EN 55035, FCC Part 15 Subpart B EMC
- RoHS, WEEE, and REACH Environmental Directives
- NEBS Level 3 (select models)
- Common Language Equipment Identification (CLEI) codes available for all listed models

TECHNICAL SPECIFICATIONS

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Parameter	Specification
Form Factor	1RU Fixed / 2RU-14RU Modular Chassis
Switching Capacity	480 Gbps to 25.6 Tbps (Model Dependent)

Forwarding Rate	Up to 9.5 Bpps (Model Dependent)
Power Supply	Dual Hot-Swappable Redundant AC/DC
Cooling	Front-to-Back / Back-to-Front Airflow Options
Interface Options	1G/10G/25G/40G/100G/400G
Routing Protocols	BGP, OSPF, IS-IS, MPLS, VPLS, Segment Routing
Management	CLI, NETCONF/YANG, SNMPv3, RESTCONF
Compliance	MEF CE 2.0, NEBS Level 3, RoHS, WEEE
MTBF	> 250,000 Hours (Typical)

ORDERING SKU INFORMATION

Each hardware model within the XPONSHOP Strategic Sourcing Line Card is assigned a unique sourcing SKU for streamlined procurement. The ordering matrix includes base system SKUs, redundant power supply options, fan tray assemblies, and transceiver compatibility references. Customers are advised to consult the latest XPONSHOP Strategic Sourcing Line Card revision for current inventory availability and lead times.

