Dell EMC Networking OS10 Open Edition
Powered by OpenSwitch OPX
Your Way To Build Composable Networks...

OS10 Open Edition
- Linux Foundation open source project
- Diverse growing community led by Dell EMC
- 100/40/25/10/1G platform support
- Open source NOS for hardware switches
- Commercial-grade turnkey solution
- Open and premium application ecosystem
- Rapid onboarding of new platforms, protocols, and applications on top of unmodified Linux kernel

What is OS10 Open Edition?
Dell EMC Networking runs network operating system OS10 on its data center switches, and contributes part of the OS10 (base) code to the OpenSwitch OPX project. To enable OPX in a production environment, Dell EMC offers OPX support for Dell EMC switches.

This combination of OPX code, along with Dell EMC support is known as OS10 Open Edition. Customers can get OPX software from openswitch.net or Dell EMC eSupport, or purchase Enhancement Package SKUs (POS and APOS) from Dell EMC.

Why OS10 Open Edition?
Operational efficiency benefits
- Software and hardware disaggregation
- Free NOS base brings capex savings
- Open/premium applications save opex

Network agility and features velocity
- Custom modifiable open source code
- Extensible to support new platforms
- Provides framework to integrate new applications

Learn more at Dell.com/Networking

Features

Linux feature integration
- Linux Debian Stretch 9
- LLDP, STP, PVST, ICMP, DNS client, NTPv4, DHCP client
- Linux utilities and tools delivering full-featured networking capabilities

Management
- RADIUS, TACACS+, SSHv2, syslog, PAM
- SNMPv2/v3

Layer 2
- LACP, LAG, VLAN, CoS, ICMP snooping, static VxLAN

Layer 3
- IPv4 and IPv6 support
- ECMP, inter-VRF routing, ARP, IGMPv2

Ecosystem
- BGP, OSPF, L3 routing, telemetry
- Intent-based networking, BGP unnumbered

Security and instrumentation
- ACL: 5-tuples, L2/L3, UDF
- Monitor: (R)SPAN, sFlow

QoS
- DiffServ, PFC, CoPP, 802.1p, DSCP
- Ingress policing, egress shaping, scheduling

DevOps
- Control plane services APIs
- Automation/provisioning: Ansible, Chef, Puppet, Salt+Napalm
- Programmability via Python, C/C++, YANG interfaces
Open Source Disaggregated Network OS

- Rich open source and premium network applications
- Modular, scalable, extensible, performance-optimized architecture
- New applications are easily ported, using control plane services (CPS) abstraction
- ASIC/NPU extensions are easily integrable, using switch abstraction interface (SAI)
- Deploy native Linux applications, supplemented by OpenSwitch OPX networking stack
- Linux Foundation neutrality – growing and vivid community

Enhancement Package SKUs

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<tr>
<th>SKU</th>
<th>Mfr Part</th>
<th>Short Description</th>
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<tbody>
<tr>
<td>528-BBTW</td>
<td>APOS</td>
<td>Dell EMC OpenSwitch OPX Enhancement Package 1G Switches Customer Kit</td>
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