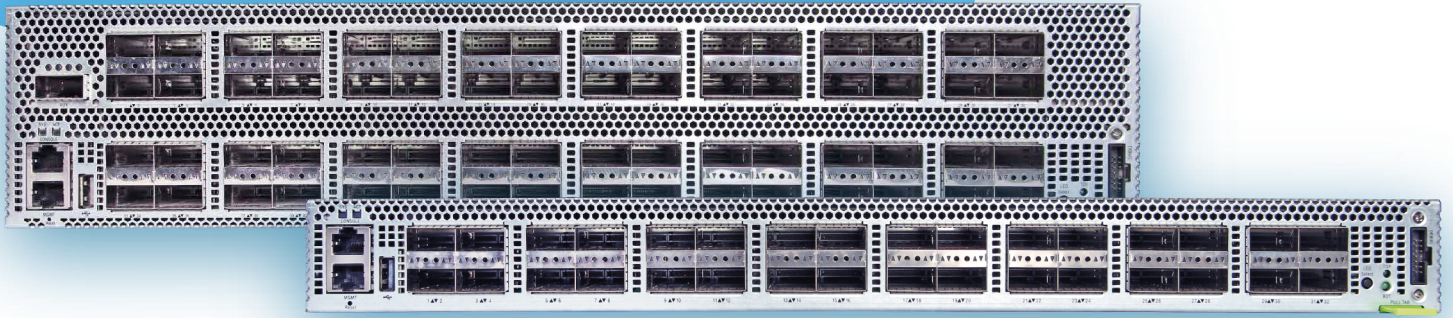# EcoSwitch

SDN Switch

EcoSwitch is genuine fast OpenFlow switch.

Ideal for Wide Area Networks, clouds or virtualized data centers. Can be used as:

- High performance OpenFlow-fabric for OpenStack
- MPLS router in ISP network
- TAP aggregation fabric switch
- TOR switch

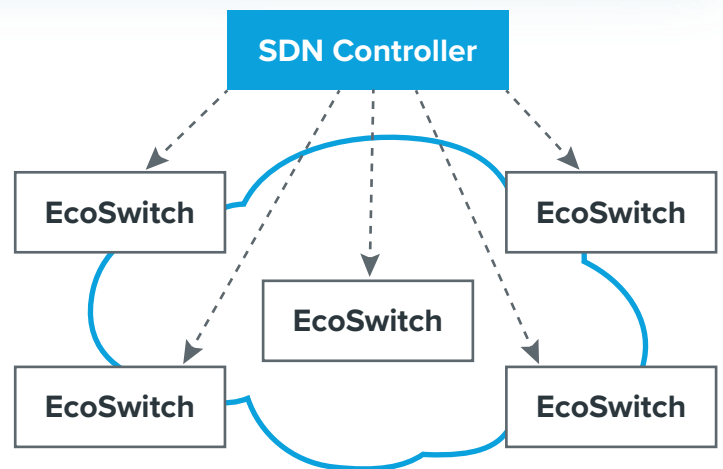Implements OF 1.3.5 actions, instructions and matching fields.

Available in standard 1U/2U 19" rack mount factor.

Also can be installed in 21" Open Rack with Open Rack Switch Adapter.

Data plane ports

32/65 (depends on model) data plane ports implemented as QSFP28 transceivers cages, each of them can be configured as:

- 100 GbE
- 4 x 25 GbE
- 40 GbE
- 4 x 10 GbE
- 2 x 50 GbE

Supported transceivers and cables

- 100GBASE-LR4 10km SMF
- 100GBASE-SR4 100m OM3 MMF, 150m OM4 MMF
- 100GBASE-CR4 4xSFP28 25G DAC 0.5 to 3m (passive and active)
- 40GBASE-LR4 10km SMF
- 40GBASE-SR4 100m OM3 MMF, 150m OM4 MMF
- 40GBASE-SR4 4x10GBASE-SR 100m OM3 MMF, 150m OM4 MMF
- 40GBASE-CR4 4xSFP+10GBASE-CR DAC 0.5 to 3m
- 40GBASE-CR4 DAC 0.5 to 3m (passive and active)

Hardware features

- Dedicated 1 GE port for management and connection to OpenFlow controller.

- USB type A port for external storage media.

- All ports located on the front of unit; PSUs and fans accessible from rear.

- Energy Efficiency: less that 310W typical power consumption without pluggable optics.

- Hot-swappable load-sharing, redundant AC or -48V DC PSUs.

- 4+1 (8+2) redundant, hot-swappable fan modules. Air flow direction from rear to front.

Software features

- Support Jumbo Frames up to 9,216 bytes.

- Support multiple controllers and controller role change.

- Controller support via both in-band and out-of-band ports.

- Balancing traffic in a line while maintaining the flow rate to the core.

- Maskable and exact match flow tables.

EcoSwitch Series	1020	1032	2065
Throughput	Up to 2.8 Tbps	Up to 3.2 Tbps	Up to 6.4 Tbps
Forwarding capacity	Up to 2.0 Bpps	Up to 4.7 Bpps	Up to 9.5 Bpps
Standard 19" rack mount	1U		2U
QSFP28 transceivers cages	8	32	65
SFP28 transceivers cages	48	-	-
Packet buffer	22 MB		
System memory	8GB DDR4		
SD/CF memory	SSD 8-120 GB	SSD 120 GB	
CPU	Intel Xeon D-1527	Intel Pentium D	
Serial console	1 x RJ-45		
Management port	1 x 1000BASE-T		
Redundant power supply	2 x 550W	2 x 600W	2 x 1,100W
Typical consumption with all active ports	504W	476W	1024W
Hot-swappable fans	4	5	10
Operating temperature	0 °C .. 40 °C		
Storage temperature	-40 °C .. 70 °C		
Operating humidity	5 % to 95 % non-condensing		
Operating altitude	0 to 10,000 feet		
Weight	9,5 kg	10.0 kg	14.3 kg