

# Extreme network switch

Network switch for the digital operating room



## PRODUCT SPECIFICATIONS

## EXTREME NETWORK SWITCH

Network interface	Type	10GBASE-X SFP+
	Amount	48 ports
	Speed	<ul style="list-style-type: none"> <li>■ 1G/10G dual-speed at line rate</li> <li>■ Auto detection of 10GbE or 1GbE</li> </ul>
	Deployment	Flexible use of downlink or uplink per port
	Management	<ul style="list-style-type: none"> <li>■ 1x 10/100/1000 BASE-T RJ-45 management port</li> <li>■ 1x RJ-45 RS-232 Console port</li> </ul>
Switching capacity	Backplane capacity	Full-duplex switching capacity of 48 x 10Gbps
	Forwarding latency	< 50sec E-2-E (L2 and L3)
	Throughput	>= 15Mpps per port
Forwarding -Layer 2	MAC addresses	<ul style="list-style-type: none"> <li>■ MAC learning, aging &amp; static MAC config</li> <li>■ &gt; 10K MAC address entries</li> </ul>
	Special frames	<ul style="list-style-type: none"> <li>■ Pause frames (802.3x)</li> <li>■ Jumbo frames (&lt;=9KB)</li> </ul>
	Link aggregation	802.3ad LACP: 48 groups with max. 8 ports/group
	VLAN	<ul style="list-style-type: none"> <li>■ 802.1Q VLAN tagging</li> <li>■ 802.1v VLAN classification based on port, protocol, MAC</li> <li>■ 4094 VLANs/switch</li> </ul>
	QoS	<ul style="list-style-type: none"> <li>■ 802.1p with 8HW queues per port</li> <li>■ Avg. of 200KB queue size per port</li> <li>■ AVB ready - IEEE 802.1AS, Qat and Qav</li> </ul>
	ACL	<ul style="list-style-type: none"> <li>■ &gt; 500 wirespeed ingress and egress ACLs</li> <li>■ ACL rules at L2/L3/L4</li> <li>■ ACL rules based on port, MAC@, VLAN, IP@</li> </ul>
	STP	802.1D/w/Q RSTP, MSTP, PVSTP+ (Per VLAN STP)
	LLDP	802.1 AB LLDP & LLDP-MED
Forwarding -Layer 3	IP	3K Ipv4 / Ipv6 addresses
	IGMP	<ul style="list-style-type: none"> <li>■ IGMP v1/2/3</li> <li>■ IGMP Snooping</li> <li>■ IGMP Proxy</li> </ul>
	PIM	PIM-DM, PIM-SM & MSDP, PIM-SSM
	RIP	<ul style="list-style-type: none"> <li>■ 8RIPv1/2</li> <li>■ OSPF</li> </ul>
	Multicast	<ul style="list-style-type: none"> <li>■ 2000 mcast groups</li> <li>■ 4000 Ipv4 mcast routes</li> <li>■ 4000 Ipv6 mcast routes</li> </ul>
	Misc	RFC2131 DHCP, RFC793 TCP, RFC791 IP, RFC826 ARP RFC1591 DNS, RFC768 UDP, RFC792 ICMP, RFC894 IPoE
Management	SNMP	SNMPv1/2/3
	File transfer	RFC783 TFTP, SFTP, SCP
	Standard MIBs	Interface, Bridge, Ethernet, MAU, ping/traceroute, LLDP, Ipv4 multicast
	Console	<ul style="list-style-type: none"> <li>■ CLI/Telnet (RFC854)</li> <li>■ CLI/SSHv2</li> </ul>
	Initialization	RFC1542 BOOTP, RFC2131 DHCP & Relay
	Timing	RFC2030 (S)NTP
	Logging	RFC3164 SYSLOG

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Security	Access control	<ul style="list-style-type: none"><li>ACL lists on port, MAC@, IP@, VLAN</li><li>Automatic port shutdown</li><li>ACE counters</li></ul>
	Control protocols	<ul style="list-style-type: none"><li>RFC2138/2139 RADIUS</li><li>RFC1492 TACACS+</li><li>802.1x authentication + local authentication</li><li>Guest VLAN</li></ul>
	Security protocols	<ul style="list-style-type: none"><li>SNMPv3, SSHv2, SCP, SFTP</li><li>RFC 3046 DHCP Option 82</li><li>With port and VLAN ID</li></ul>
Mechanics	Dimensions	<ul style="list-style-type: none"><li>Height: 4,4 cm (1.73")</li><li>Width: 44,1 cm (17.4")</li><li>Depth: 48,9cm (19.25")</li></ul>
	Max. noise	54dB
	Fan unit	1+1 hot swappable
	Operating conditions	<ul style="list-style-type: none"><li>Altitude: up to 3000m</li><li>Humidity: 10% - 90%, relative humidity, not condensing</li><li>Temperature: 0 - 40°C</li></ul>
	Power supply	<ul style="list-style-type: none"><li>450W AC or DC</li><li>1+1 load-balanced, hot-swappable</li></ul>
	Power consumption	< 5W/port at 100% traffic load
	Weight	7kg without PSU
	MTBF	18y @ 40°C
	Certifications	Safety
EMC		<ul style="list-style-type: none"><li>FCC Class A</li><li>EN 55022, 55024, 6100-6-13, 300386</li><li>CI SPR 22 Class A</li><li>CE</li><li>CCC</li></ul>
Environment		<ul style="list-style-type: none"><li>RoHS &amp; China RoHS</li><li>WEEE recycling</li><li>REACH</li></ul>

Last updated: 21 Jan 2018

Technical specifications are subject to change without prior notice. Please check [www.barco.com](http://www.barco.com) for the latest information.