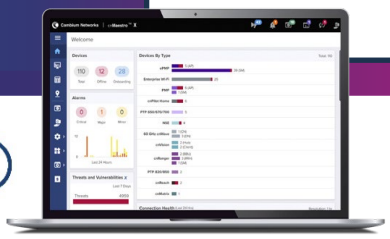
cnMatrix EX1000 Series Switches

EX1000 Series Quick Look

- Zero-touch deployments
- Policy-based automation
- Auto-device profiling and segmentation
- Non-blocking, line-rate architecture with fully featured L2 switching





cnMaestro

Cloud-Managed, Secure, Enterprise-Grade Switching

Cambium Networks' next-generation switching platform offers a cloud-managed, high-performance, feature-rich, enterprise-grade ethernet switching solution.

The cnMatrix™ platform of switches provides:

- Easy and simple, free cloud (or on-premise) management with cnMaestro™ Network Management.
- Zero-touch deployment of switches makes installation easy.
- Policy-based automation eliminates manual and time consuming configuration, during adds, moves, and changes of network devices.
- Enhanced security with automated device profiling and segmentation.
- Unified wired-wireless access solution.

The cnMatrix series of fully managed switches delivers full Layer 2 capabilities with enhanced access security. These switches come with a 5-year limited lifetime warranty.



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cnMatrix EX1000 Series Switches

Specifications

	EX1028-P	EX1028	EX1010-P
Throughput	56 Gbps	56 Gbps	20 Gbps
Non-Blocking Throughput	✓	✓	✓
Forwarding Rate in Mpps (64 Byte Packets)	120	120	120
10/100/1000 Ports	24	24	8
Packet Buffer	1.5 MB	1.5 MB	1.5 MB
2.5 G Ports	n/a	n/a	n/a
Energy-Efficient Ethernet	✓	✓	✓
Uplink Ports	4 SFP	4 SFP	2 SFP
PoE+ Enabled Ports 802.3af/at	24	n/a	8
Serial Console	✓	✓	✓
USB	✓	✓	✓
Out-of-Band Management Port	n/a	n/a	n/a
Rack Mount Kit	✓	✓	Optional
Internal Fans	2	Fanless	Fanless
Reset Button	✓	✓	✓
MAC Address Table Size	16K	16K	16K
Flash Storage	128 MB	128 MB	128 MB
DRAM	512 MB	512 MB	512 MB
VLANs (simultaneous)	4K	4K	4K
QinQ	No	No	No
LACP/Trunking	8 LAGs/8 ports per LAG	8 LAGs/8 ports per LAG	8 LAGs/8 ports per LAG
QoS Priority Queues	8	8	8
PVRST	64	64	64
Ingress/Egress ACL	145	145	145
L3 Interfaces	64	64	64
Static ARP Entries	512	512	512
ARP Entries	512	512	512
Static Routes	64	64	64
Dynamic Routing	n/a	n/a	n/a
IGMP Multicast Groups	256	256	256
Policy-Based Automation (PBA)	✓	✓	✓

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cnMatrix EX1000 Series Switches

Specifications – All Models

Quality of Service	ACL mapping/marking of ToS/DSCP (COS) ACL mapping marking of 802.1p ACL mapping to priority queue DiffServ support Honoring DSCP and 802.1p (CoS) Traffic shaping/metering Priority queue management using Weighted Round Robin (WRR), Strict Priority (SP) and a combination of WRR and SP
Traffic Management	ACL-based inbound rate-limiting policies Broadcast, multicast, and unknown unicast rate limiting (storm control) Inbound rate limiting per port Outbound rate limiting per port/queue
Security	802.1x authentication MAC authentication/MAB Guest VLAN/failover VLAN authorization Local & RADIUS authentication/authorization (dynamic VLAN assignment) RADIUS/Tacacs/Tacacs+ Secure shell Secure copy (SCP) Local username/password Port security DHCP snooping Dynamic ARP inspection
Security (ACL) Permit/deny actions for inbound IP and layer 2 traffic classification based on:	Source/destination IP address TCP/UDP source/destination port IP protocol type Type of Service (ToS) or differentiated services (DSCP) field Source/destination MAC address EtherType IEEE 802.1p user priority VLAN ID RFC 1858—Security considerations for IP fragment filtering

Layer 2 Feature Set	802.1d, RSTP, 802.1s - MSTP, PVRST ERPSv1–Ethernet ring protection switching VLAN, port, protocol, 802.1q Auto MDI/MDIX BPDU guard, root guard, loop guard BPDU filtering IGMP snooping v1/v2/v3*, fast leave IGMP proxy LLDP/LLDP MED Static MAC Flow control per port Port mirroring/SPAN: Port based, ACL based, VLAN based Port isolation/private VLAN edge Link aggregation groups (static/LACP) Jumbo frame (9K) DoS protection Ping/TraceRoute/ICMPv6
Layer 3 Feature Set	Inter-VLAN routing Static ARPs Static routes DHCP relay w/multiple helpers per VLAN Route redistribution

Management	cnMaestro Industry standard Command Line Interface (CLI) DHCP client Embedded web management (HTTP/HTTPS) DHCP server USB file management and storage	SSH/SSH v2 SNMP v1/v2/v3 Simple Network Time Protocol (SNTP) Local/remote system logging (syslog client) Policy-based automation (PBA)	TFTP/SFTP Telnet client/server IPv6 management Password management

* Feature to be included in a future release.

cnMatrix EX1000 Series Switches

Hardware Specifications

	EX1028-P	EX1028	EX1010-P
Power Supply	100–240 VAC	100–240 VAC	100–240 VAC
Max Switch Power (with Traffic)	25.10W	19.50W	10.54W
MTBF (Hours)	285,350	432,283	338,917
Weight	3.96 kg (8.75 lb)	2.77 kg (6.1 lb)	1.99 kg (4.375 lb)
Dimensions	44 x 4.4 x 25 cm (17.3 x 1.75 x 9.85 in)	44 x 4.4 x 20.9 cm (17.3 x 1.75 x 8.22 in)	21 x 4.4 x 25 cm (8.26 x 1.75 x 9.85 in)
CPU Speed	800 MHz	800 MHz	800 MHz
LEDs per Port	Link/Activity, PoE	Link/Activity	Link/Activity, PoE
PoE+ Power Budget	200W	n/a	75W
PoE + Voltage	54V	n/a	54V
PoE Max Power per Port	30W	n/a	30W
Rack Mountable	Yes 1U	Yes 1U	Yes 1U
Temperature Ranges	0° to 50°C (32° to 122°F)	0° to 50°C (32° to 122°F)	0° to 50°C (32° to 122°F)
Operating Humidity	55° at 95% RH	55° at 95% RH	55° at 95% RH
Storage Temperature	-40° to 70°C (-40° to 158°F)	-40° to 70°C (-40° to 158°F)	-40° to 70°C (-40° to 158°F)

Acoustic Noise dBA per Switch (Ambient Temperature)

EX1028-P	40 dB - < 33°C, 44.3 dB - 30°C–40°C, 52 dB - > 43°C
EX1028	Fanless
EX1010-P	Fanless

cnMatrix EX1000 Series Switches

IEEE Standards

Core Switching Features	IEEE 802.1ab—Link Layer Discovery Protocol (LLDP) IEEE 802.1D—Spanning tree compatibility IEEE 802.1p—Ethernet priority with user provisioning and mapping IEEE 802.1s—Multiple spanning tree compatibility IEEE 802.1Q—Virtual LANs with port-based VLANs IEEE 802.1X—Port-based authentication 802.3az—Energy-Efficient Ethernet
VLAN Support	IEEE 802.1W—Rapid spanning tree compatibility IEEE 802.3—10BASE-T IEEE 802.3u—100BASE-T IEEE 802.3ab—1000BASE-T IEEE 802.3ac—VLAN tagging IEEE 802.3ad—Link aggregation IEEE 802.3x —Flow control Bridged Local Area Networks - Amendment 07: Multiple Registration Protocol
IEEE 802.1Q-2003	RFC 4541—Considerations for Internet, Group Management Protocol (IGMP), Snooping switches ANSI/TIA-1057—LLDP-media endpoint discovery (MED)
Advanced Layer 2 Features	Authentication, Authorization, and Accounting* (AAA) Broadcast/Multicast/Unknown unicast storm recovery DHCP Snooping IGMP Snooping Querier Independent VLAN Learning (IVL) support Jumbo Ethernet frame support Port MAC locking Port mirroring Protected ports Static MAC filtering
Layer 3 Features	Inter-VLAN Routing Static ARP Static Routes RFC 2131 – DHCP Relay

* Feature to be included in a future release.

cnMatrix EX1000 Series Switches

System Facilities

Event and error logging facility

Run-time and configuration download capability

PING utility

FTP Transfers via IPv4/IPv6

RFC 768—UDP

RFC 783—TFTP

RFC 791—IP

RFC 792—ICMP

RFC 793—TCP

RFC 826—ARP

RFC 894—Transmission of IP datagrams over Ethernet networks

RFC 896—Congestion control in IP/TCP networks

RFC 951—BOOTP

RFC 1034—Domain names - concepts and facilities

RFC 1035—Domain names - implementation and specification

RFC 1321—Message digest algorithm

RFC 1534—Interoperability between BOOTP and DHCP

RFC 2021—Remote network monitoring management information base v2

RFC 2030—Simple Network Time Protocol (SNTP)

RFC 2132—DHCP options and BOOTP vendor extensions

RFC 2819—Remote Network Monitoring Management Information Base

RFC 2865—RADIUS client

RFC 2869—RADIUS Extensions

RFC 3579—RADIUS support for EAP

RFC 3580—IEEE 802.1X RADIUS usage guidelines

RFC 3164—BSD syslog protocol

RFC 3580—802.1X RADIUS Usage Guidelines

Management

SNMP v1, v2, and v3

SSH 1.5 and 2.0

RFC 4252—SSH authentication protocol

RFC 4253—SSH transport layer protocol

RFC 4254—SSH connection protocol

RFC 4251—SSH protocol architecture

RFC 4716—SECSH public key file format

RFC 4419—Diffie-Hellman group exchange for SSH transport layer protocol

SSL 3.0 and TLS 1.0

RFC 2246—TLS protocol, version 1.0

RFC 2818—HTTP over TLS

RFC 3268—AES cipher suites for transport layer security

Telnet

Web GUI

SNMP MIBs

Enterprise MIBs for Full Configuration Support of Switching Features

RFC 1213—MIB II

RFC 1493—Bridge MIB

RFC 1612—DNS resolver MIB extensions

RFC 1643—Definitions of managed objects for Ethernet-like interface types

RFC 2233—Interfaces group MIB using SMI v2

RFC 2613—SMON MIB

RFC 2618—RADIUS authentication client MIB

RFC 2674—VLAN MIB

RFC 2737—Entity MIB v2*

RFC 2819—RMON groups 1, 2, 3, and 9

RFC 2863—IF-MIB

RFC 2925—Definitions of managed objects for remote ping, traceroute, and lookup operations

RFC 3273—RMON groups 1, 2, and 3

RFC 3291—Textual conventions for internet network addresses

RFC 3434—RMON Groups 1, 2, and 3

RFC 4022—TCP-MIB

RFC 4113—UDP-MIB

Quality of Service MIBs

MIBs for full configuration support of DiffServ, ACL, and Cos functionality

RFC 3289—Management information base for DiffServ architecture (read-only)

cnMatrix EX1000 Series Switches

Quality of Service	
Classify Traffic Based on Same Criteria as ACLs and Optionally	Mark the IP DSCP or precedence header fields
	Police the flow to a specific rate with two- color aware support
	RFC 2474—Definition of the differentiated services field (DS field) in the IPv4 and IPv6 headers
	RFC 2475—An architecture for differentiated services
	RFC 2597—Assured forwarding per-hop behavior



EX1028



EX1010-P



EX1028-P

cnMatrix EX1000 Series Switches

Ordering Information		
Type	Part #	Description
Switch	MX-EX1028PxA-E	Intelligent Ethernet PoE+ Switch, 24 x 1 Gbps and 4 x 1 Gbps SFP fiber ports - no power cord; EMEA
Switch	MX-EX1028PxA-0	Intelligent Ethernet PoE+ Switch, 24 x 1 Gbps and 4 x 1 Gbps SFP fiber ports - no power cord
Switch	MX-EX1028xxA-E	Intelligent Ethernet Switch, 24 x 1 Gbps and 4 1 Gbps SFP fiber ports - no power cord; EMEA
Switch	MX-EX1028xxA-0	Intelligent Ethernet Switch, 24 x 1 Gbps and 4 1 Gbps SFP fiber ports - no power cord
Switch	MX-EX1010PxA-E	Intelligent Ethernet PoE Switch, 8 x 1 Gbps and 2 SFP fiber ports - no power cord; EMEA
Switch	MX-EX1010PxA-0	Intelligent Ethernet PoE Switch, 8 x 1 Gbps and 2 SFP fiber ports - no power cord
Transceiver	SFP-1G-SX	1G SFP MMF SX Transceiver, 850 nm. -40°C to 85°C (-40°F to 185°F)
Transceiver	SFP-1G-LX	1G SFP SMF LX Transceiver, 1310 nm. -40°C to 85°C (-40°F to 185°F)
Transceiver	SFP-1G-Copper	1000Base-T (RJ45) SFP Transceiver. -40°C to 85°C (-40°F to 185°F)
Cambium Care Advanced	CCADV-SUP-xxx	Cambium Care Advanced, 1, 3 or 5-year support for one cnMatrix switch. 24x7 TAC support, SW updates, and NBDS advance replacement for HW
Cambium Care Pro	CCPRO-SUP-xxx	Cambium Care Pro, 1, 3 or 5-year support for one cnMatrix switch. 24x7 TAC support and SW updates

ABOUT CAMBIUM NETWORKS

Cambium Networks enables service providers, enterprises, industrial organizations, and governments to deliver exceptional digital experiences and device connectivity with compelling economics. Our ONE Network platform simplifies management of Cambium Networks' wired and wireless broadband and network edge technologies. Our customers can focus more resources on managing their business rather than the network. We make connectivity that just works.

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