

Intelligent Ethernet Fiber Aggregation Switching

EX3024F Switch Quick Look

- Zero-touch deployments
- Policy-based automation
- Auto-device profiling and segmentation
- Non-blocking, line-rate architecture with fully featured L2/L3 switching





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

FEATURES

- Easy and simple, free cloud (or on premise) management with cnMaestro™
- Zero-touch deployment of switches makes installation easy
- Policy-based automation (PBA) 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 and Layer 3 capabilities with enhanced security. The EX3024F is a fiber aggregation switch that has all 10 Gbps SFP+ fiber ports. Also, this switch has dual internal power supplies for additional robustness and redundancy. These switches come with a five-year limited lifetime warranty.



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Specifications			
Throughput	480 Gbps	Flash Storage	256 MB
Forwarding Rate in Mpps (64 Byte Packets)	120	DRAM	2 GB
Packet Buffer	3 MB	VLANs (simultaneous)	4K
10/100/1000 Ports	n/a	QinQ	Yes
2.5 G Ports	n/a	LACP/Trunking	8 LAGs/8 ports per LAG
Energy-Efficient Ethernet	✓	QoS Priority Queues	8
Fiber Ports	24 SFP+	PVRST	64
PoE+ Enabled Ports 802.3af/at/bt	N/A	Ingress/Egress ACL	512
Serial Console	✓	L3 Interfaces	64
USB Port	✓	Static ARP Entries	512
Out-of-Band Management Port	✓	ARP Entries	1000
Rack Mount Kit	✓	Static Routes	64
Internal Fans	2	Dynamic Routing	512
Reset Button	✓	IGMP/PIM-SM Multicast Groups	512
MAC Address Table Size	32K	Policy-Based Automation (PBA)	✓



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Specifications –		261	Lavor 2 Facture	MI ^ C*		
Quality of Service	ACL mapping/marking of ToS/DSCP (COS)		Layer 2 Feature Set	MLAG*		
	ACL mapping marking of 802.1p		G 01		, RSTP, 802.1s - MSTP, PVRST	
	ACL mapping to priority queue				1–Ethernet ring protection switching	
	DiffServ support				port, protocol, 802.1q	
	Honoring DSCP and 802.1p (CoS)			QinQ		
	Traffic shaping/metering				guard, root guard, loop guard	
	Priority queue management using Weig Round Robin (WRR), Strict Priority (SP) a combination of WRR and SP				snooping v1/v2/v3*, fast leave	
Traffic Management	ACL-based inbound rate-limiting policies	, c		IGMP p		
Traine Management	Broadcast, multicast, and unknown unio				LDP MED	
	rate limiting (storm control) Inbound rate limiting per port			Static N		
					ontrol per port	
	Outbound rate limiting per port/queue				irroring/SPAN: Port based, ACL VLAN based	
Security	802.1x authentication				Port isolation/private VLAN edge	
•	MAC authentication/MAB				ggregation groups (static/LACP)	
	Guest VLAN/failover VLAN authorization			_	frame (9K)	
	Local & RADIUS authentication/authorization				rotection	
	(dynamic VLAN assignment)				raceRoute/ICMPv6	
	RADIUS/Tacacs/Tacacs+			9,		
	Secure shell					
	Secure copy (SCP)					
	Local username/password					
	Port security					
	DHCP snooping					
	Dynamic ARP inspection					
Security (ACL)	Source/destination IP address		Layer 3 Feature	Inter-V	LAN routing	
Permit/deny actions for inbound IP and layer 2	TCP/UDP source/destination port		Set	Static A	ARPs	
traffic classification based on:	IP protocol type			Static r	routes	
	Type of Service (ToS) or differentiated			DHCP	relay w/multiple helpers per VLAN	
	services (DSCP) field Source/destination MAC address EtherType			Dynam	nic routing – RIPv1/v2	
				Dynam	nic routing – OSPFv2	
				Route	redistribution	
	IEEE 802.1p user priority					
	VLAN ID					
	RFC 1858—Security considerations for IP					
	fragment filtering					
Management	cnMaestro		and Ethernet manage	ment	TFTP/SFTP	
	Industry standard Command Line	SSH/SSH			Telnet client/server	
	Interface (CLI)	SNMP v1			IPv6 management	
	DHCP client		Network Time Protoco	I	Password management	
	Embedded web management	(SNTP)	moto system legging	(cyclos		
	(HTTP/HTTPS)	client)	mote system logging	sysiog		
	DHCP server	,	ased automation (PBA)		
	USB file management and storage	i oney based automation (i DA)				

^{*} Feature to be included in a future release.



Hardware Specifi	ications		
Power Supply	Dual internal 120W	PoE+ Power Budget	N/A
Max Switch Power	75W	PoE+ Voltage	N/A
(with Traffic)			
MTBF (Hours)	928,678	PoE Max Power per Port	N/A
Weight	3 kg	Rack Mountable	Yes 1U
Dimensions (HxWxL)	4.4x33.0x23.05 cm	Temperature Ranges	0°C to 50°C (32°F to 122°F)
CPU Speed	1.4 GHz	Storage Temperature	-40°C to 70°C (-40°F to 158°F)
LEDs per Port	Link/Activity		
Acoustic Noise dBA	36.2 dBA: < 29°C		
per Switch (Ambient	45.6 dBA: 29°C-34°C		
Temperature)	52 dBA: > 34°C		

Switching -	IEEE Standards		
Switching – Core Switching Features	IEEE Standards 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	Advanced Layer 2 Features	Authentication, authorization, and accounting* (AAA) IEEE 802.1ad (QinQ) Broadcast/multicast/unknown unicast storm recovery DHCP snooping IGMP snooping querier ERPS – G.8032 Jumbo Ethernet frame support Port MAC locking Port mirroring Protected ports
	802.3az—Energy-efficient Ethernet		Static MAC filtering
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	Layer 3 Features	Inter-VLAN Routing Static ARP Static routes RFC 2131 – DHCP relay RFC 2328 – OSPF version 2 RFC 2453 – RIP version 2 PIM-SM – Multicast routing
IEEE 802.1Q-2003	RFC 4541—Considerations for Internet Group Management Protocol (IGMP)		
eature to be included	Snooping switches ANSI/TIA-1057—LLDP-Media Endpoint Discovery (MED)		

^{*}Feature to be included in a future release.



System Facilities		
Event and error logging facility	RFC 896—Congestion control in IP/TCP	RFC 2132—DHCP options and BOOTP
Run-time and configuration download	networks	vendor extensions
capability	RFC 951—BOOTP	RFC 2819—Remote Network Monitoring
PING utility	RFC 1034—Domain names - concepts and	Management Information Base
FTP Transfers via IPv4/IPv6	facilities	RFC 2865—RADIUS client
RFC 768—UDP	RFC 1035—Domain names - implementation	RFC 2869—RADIUS Extensions
RFC 783—TFTP	and specification	RFC 3579—RADIUS support for EAP
RFC 791—IP	RFC 1321—Message digest algorithm	RFC 3580—IEEE 802.1X RADIUS usage
RFC 792—ICMP	RFC 1534—Interoperability between BOOTP	guidelines
RFC 793—TCP	and DHCP	RFC 3164—BSD syslog protocol
RFC 826—ARP	RFC 2021—Remote network monitoring management information base version 2	RFC 3580—802.1X RADIUS Usage Guidelines
RFC 894—Transmission of IP datagrams over Ethernet networks	RFC 2030—Simple Network Time Protocol (SNTP)	

Management		
SNMP v1, v2, and v3	RFC 4716—SECSH public key file format	RFC 2818—HTTP over TLS
SSH 1.5 and 2.0	RFC 4419—Diffie-Hellman group exchange	RFC 3268—AES cipher suites for transport
RFC 4252—SSH authentication protocol	for SSH transport layer protocol	layer security
RFC 4253—SSH transport layer protocol	SSL 3.0 and TLS 1.0	Telnet
RFC 4254—SSH connection protocol	RFC 2246—TLS protocol, version 1.0	Web GUI
REC 4251—SSH protocol architecture		

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 1213—MIB II 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 3291—Textual conventions for internet network addresses RFC 3434—RMON Groups 1, 2 and 3 RFC 4022—TCP-MIB RFC 4113—UDP-MIB
RFC 2618—RADIUS authentication client MIB		

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

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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



cnMatrix Order	ing Information	
Switch	MXEX3024xFxA00	cnMatrix EX3024F, Intelligent Ethernet Fiber Aggregation Switch, 24 - 10 Gbps SFP+ ports, dual internal AC power supplies - no power cord
Switch	MXEX3024xFxA01	cnMatrix EX3024F, Intelligent Ethernet Fiber Aggregation Switch, 24 10 Gbps SFP+ ports, dual internal AC power supplies - no power cord, USA only
Power Cord	N000900L040A	AC line cord, US Type B, 1.2m C13 Connector
Transceiver	SFP-10G-SR	10G SFP+ MMF SR Transceiver, 850 nm40°C to 85°C (-40°F to 185°F)
Transceiver	SFP-1G-SX	1G SFP MMF SX Transceiver, 850 nm40°C to 85°C (-40°F to 185°F)
Transceiver	SFP-10G-LR	10G SFP+ SMF LR Transceiver, 1310 nm40°C to 85°C (-40°F to 185°F)
Transceiver	SFP-1G-LX	1G SFP SMF LX Transceiver, 1310 nm40°C to 85°C (-40°F to 185°F)
Transceiver	SFP-1G-Copper	1000Base-T (RJ45) SFP Transceiver40°C to 85°C (-40°F to 185°F)
Transceiver	SFP-10G-Copper	10G Base-T (RJ45) SFP Transceiver. 0°C to 70°C (-40°F to 185°F)
Cambium Care Advanced	CCADV-UPG-EX3024F-1	Cambium Care Advanced Add-on to cnMaestro X, 1-year support for one EX3024F. 24x7 TAC support, SW updates, and NBDS advance replacement for HW
Cambium Care Advanced	CCADV-UPG-EX3024F-3	Cambium Care Advanced Add-on to cnMaestro X, 3-year support for one EX3024F. 24x7 TAC support, SW updates, and NBDS advance replacement for HW
Cambium Care Advanced	CCADV-UPG-EX3024F-5	Cambium Care Advanced Add-on to cnMaestro X, 5-year support for one EX3024F. 24x7 TAC support, SW updates, and NBDS advance replacement for HW
Cambium Care Advanced	CCADV-SUP-EX3024F-1	Cambium Care Advanced, 1-year support for one EX3024F. 24x7 TAC support, SW updates, and NBDS advance replacement for HW
Cambium Care Advanced	CCADV-SUP-EX3024F-3	Cambium Care Advanced, 3-year support for one EX3024F. 24x7 TAC support, SW updates, and NBDS advance replacement for HW
Cambium Care Advanced	CCADV-SUP-EX3024F-5	Cambium Care Advanced, 5-year support for one EX3024F. 24x7 TAC support, SW updates, and NBDS advance replacement for HW
Cambium Care Pro	CCPRO-SUP-EX3024F-1	Cambium Care Pro, 1-year support for one EX3024F. 24x7 TAC support, SW updates
Cambium Care Pro	CCPRO-SUP-EX3024F-3	Cambium Care Pro, 3-year support for one EX3024F. 24x7 TAC support, SW updates
Cambium Care Pro	CCPRO-SUP-EX3024F-5	Cambium Care Pro, 5-year support for one EX3024F. 24x7 TAC support, SW updates
Cambium Care Pro	MSX-SUB-EX3024F-1	cnMaestro X for one EX3024F. Creates one Device Tier20 slot. Includes Cambium Care Pro support. 1-year subscription
Cambium Care Pro	MSX-SUB-EX3024F-3	cnMaestro X for one EX3024F. Creates one Device Tier20 slot. Includes Cambium Care Pro support. 3-year subscription
Cambium Care Pro	MSX-SUB-EX3024F-5	cnMaestro X for one EX3024F. Creates one Device Tier20 slot. Includes Cambium Care Pro support. 5-year subscription
Cambium Care Pro	MSX-SUB-EX3024F-7	cnMaestro X for one EX3024F. Creates one Device Tier20 slot. Includes Cambium Care Pro support. 7-year subscription
Cambium Care Pro	MSX-SUB-EX3024F-10	cnMaestro X for one EX3024F. Creates one Device Tier20 slot. Includes Cambium Care Pro support. 10-year subscription

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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