



CX3800 Series

24-port 10G Multi-Gig L3 Aggregation Switch with 4 25G and 2 100G Uplink

Zyxel's 100GbE-enabled CX3800 Series introduces new members to its Layer 3 (L3) aggregation switch family. Designed to address the increasing complexity of enterprise networks, the series delivers full 10GbE connectivity, along with 25GbE and 100GbE uplinks for scalable network expansion.

With a high-density 24-port 10G design, the CX3800 Series delivers scalable performance, efficient rack utilization, and simplified aggregation for growing networks. The CX3800-30 provides flexible copper and fiber connectivity, while the CX3800-30HP adds robust PoE capabilities to power demanding devices. For fiber-intensive deployments, the CX3800-30F features 24 SFP+ ports for high-speed, long-distance aggregation from L2 and L3 access switches.

Benefits

High-performance L3 aggregation with 25G/100G uplinks for enterprise networks

As 10G speeds become increasingly common at the network edge, robust uplink capacity is essential to sustain application performance. The CX3800 Series features four SFP28 ports supporting 10G or 25G uplinks for high-speed server and aggregation connectivity, plus two 100G QSFP28 ports that provide ultra-high-bandwidth uplinks, ensuring smooth traffic flow and reliable performance in demanding network environments.

Designed for SME networks, the series delivers essential Layer 3 aggregation features to support converged voice, video, and data services within a single infrastructure. With the integration of advanced Multi-Gig technology, it ensures optimized performance, scalability, and efficient traffic management for modern business networks.



100G-ready network with high density 10G and 25G connectivity for data-heavy and mix network



PoE model features flexible PoE++ options (90W & 60W) and delivers high power budget up to 1200W



NebulaFlex Pro allows users to switch between standalone management and intuitive Nebula cloud managed mode with 1-YEAR Pro Pack bundled



High resiliency network with dual-internal AC power supply



Address AVoIP networks with low latency and time-sync requirement



Zyxel one network
Redefining network integration

Powering next-generation WiFi with advanced PoE

As demand for wireless bandwidth continues to grow with WiFi 7 and future WiFi 8 technologies, the CX3800-30HP is designed to power high-performance network environments. It delivers up to 60W or 90W PoE++ per port and a power budget of up to 1200W, supporting the latest wireless, surveillance, and smart-building deployments. To ensure reliable operation, the CX3800-30HP also features Continuous PoE and enhanced 6KV surge protection, helping keep critical devices and services running with minimal disruption.

Built for always-on enterprise networks

The CX3800 Series features dual power supplies with active-standby redundancy, ensuring continuous operation through automatic failover to backup power. This high-availability design minimizes network downtime and delivers reliable performance for mission-critical enterprise networks.

NebulaFlex Pro – Manage your network your way, anytime

NebulaFlex Pro lets you easily switch between standalone and Nebula cloud management with just a few clicks. Manage switches, access points, firewalls, and 5G/LTE routers through a unified cloud platform. A bundled 1-year Pro Pack license lets you change management modes anytime at no extra cost while protecting your wired infrastructure investment. Upon registration, you unlock advanced features including efficient multicast with IGMP, real-time analytics alerts, and Port Advisor for proactive network monitoring. Additional enhancements and advanced features will be introduced through future NCC and mobile app updates.

Model List

CX3800-30

24-port 10G Multi-Gig L3 Aggregation Switch with 4 25G and 2 100G Uplink



- 16 × 10G Multi-Gigabit RJ-45 ports
- 8 × 10G SFP+ slots
- 4 × 10G/25G SFP28 slots
- 2 × 100G QSFP28 slots

CX3800-30HP

24-port 10G Multi-Gig L3 Aggregation PoE Switch with 4 25G and 2 100G Uplink



- 24 × 10G Multi-Gigabit PoE++ ports
- 4 × 10G/25G SFP28 slots
- 2 × 100G QSFP28 slots
- PoE power budget:
 - Single power 600W
 - Dual power 1200W

Dedicated networked AV mode

Traditional switch interfaces are filled with generic networking features, making IP network deployment challenging for AV system integrators. The CX3800 Series simplifies AVoIP deployment with a purpose-built Networked AV mode in a familiar switch interface. An intuitive setup wizard with AI-assisted configuration automates network setup, while a graphical dashboard provides clear visibility of IGMP and IP settings. A simplified function menu enables easy monitoring and management. Built for high-performance AVoIP, the CX3800 Series delivers smooth, low-latency performance for 4K video and multiple concurrent streams. Its optimized hardware architecture ensures reliable, lossless 10GbE video transport with minimal deployment complexity.

Optimized for Broadband Service Provider Networks

The CX3800-30F is optimized for fiber broadband aggregation and distribution networks, featuring 24 high-density 10G SFP+ ports for connecting OLT uplinks, aggregation nodes, access switches, and business services. Complemented by four 25G SFP28 and two 100G QSFP28 uplinks, it enables service providers to efficiently scale FTTH, business fiber, and multi-dwelling unit (MDU) deployments while minimizing network bottlenecks. Its compact 1RU design, advanced Layer 3 capabilities, and flexible high-speed uplinks make the CX3800-30F an ideal solution for regional and community broadband operators seeking a cost-effective path to 25G and 100G transport networks.

CX3800-30F

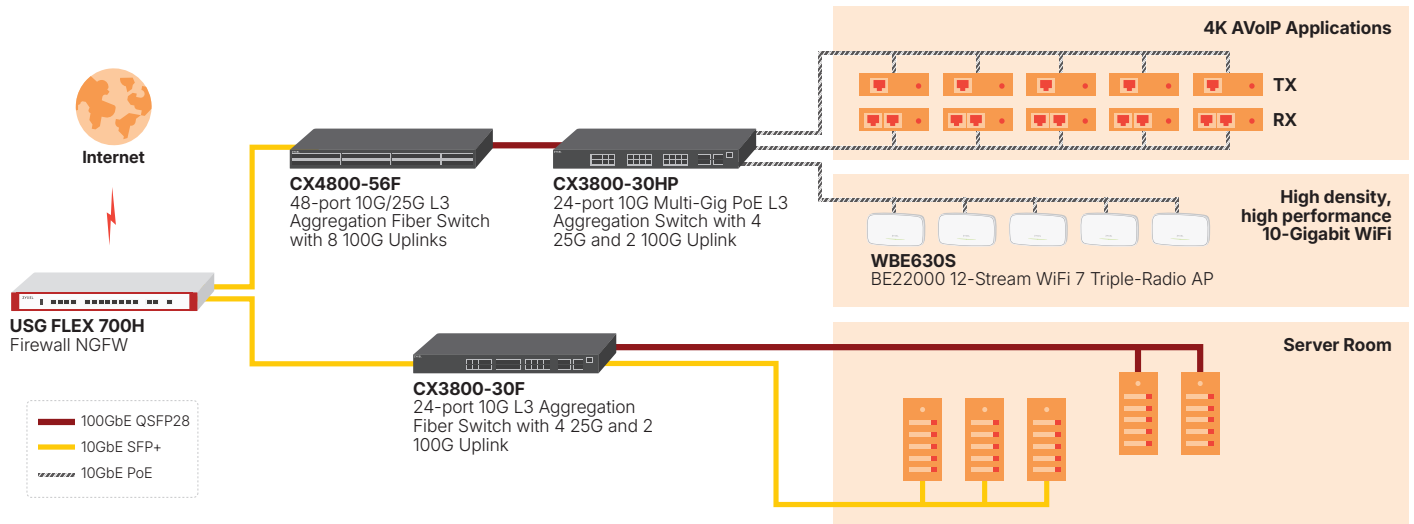
24-port 10G L3 Aggregation Fiber Switch with 4 25G and 2 100G Uplink



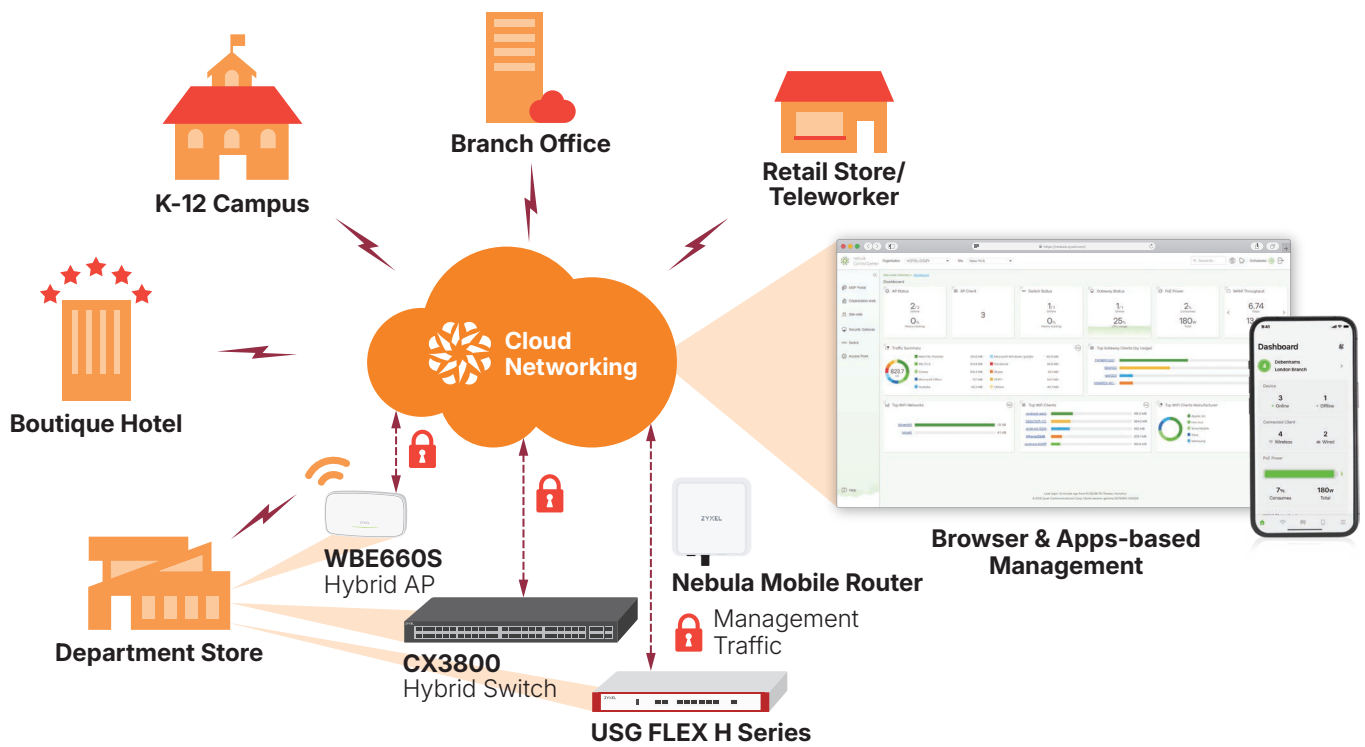
- 24 × 10G SFP+ slots
- 4 × 10G/25G SFP28 slots
- 2 × 100G QSFP28 slots

Application Diagram

Standalone Management



Nebula Cloud Management



Specifications

Model	CX3800-30	CX3800-30HP	CX3800-30F
Product name	24-port 10G Multi-Gig L3 Aggregation Switch with 4 25G and 2 100G Uplink	24-port 10G Multi-Gig PoE L3 Aggregation Switch with 4 25G and 2 100G Uplink	24-port 10G L3 Aggregation Fiber Switch with 4 25G and 2 100G Uplink
			
Switch class	Layer 3 Aggregation	Layer 3 Aggregation	Layer 3 Aggregation
Port Density			
Total port count	30	30	30
1G/2.5G/5G/10G (RJ-45)	16	24	-
10 Gigabit SFP+	8	-	24
10G/25G SFP28 ports	4	4	4
100G QSFP28 ports	2	2	2
PoE			
PoE ports	-	24	-
Total PoE budget (watts)	-	Single power: 600 Dual power: 1200	-
IEEE 802.3bt (PoE++, 90W)	-	Port 1-8	-
IEEE 802.3bt (PoE++, 60W)	-	Port 9-24	-
Performance			
Switching capacity (Tbps)	1.08	1.08	1.08
Forwarding rate (Mpps)	803.52	803.52	803.52
Packet buffer (byte)	8MB	8MB	8MB
MAC address table	32K	32K	32K
Jumbo frame (byte)	12KB	12KB	12KB
L3 forwarding table	IPv4: 4K IPv6: 2K	IPv4: 4K IPv6: 2K	IPv4: 4K IPv6: 2K
Routing table	IPv4: 12K IPv6: 6K	IPv4: 12K IPv6: 6K	IPv4: 12K IPv6: 6K
VLAN routing	Yes	Yes	Yes
IP interface	IPv4: 128 IPv6: 64	IPv4: 128 IPv6: 64	IPv4: 128 IPv6: 64
Flash/RAM	16MB/4GB	16MB/4GB	16MB/4GB
Power			
Input	100 to 240V AC, 50/60Hz	100 to 240V AC, 50/60Hz	100 to 240V AC, 50/60Hz
Min. power consumption (watts) Without any port connection	49.2	53.4	30.7
Max. power consumption (watts) All ports full load without PoE	113.2	149.3	AC: 103.1/DC: 103.68
Max. power consumption (watts) All ports full load with PoE	-	1469.3 (1200W PoE)	-

Model		CX3800-30	CX3800-30HP	CX3800-30F
Physical Specifications				
Item	Dimensions (WxDxH) (mm/in.)	441 × 360 × 44/ 17.36 × 14.17 × 1.73	441 × 360 × 44/ 17.36 × 14.17 × 1.73	441 × 360 × 44/ 17.36 × 14.17 × 1.73
	Weight (kg/lb.)	5.6/12.35	6.32/13.93	AC: 5.5/12.13 DC: 4.8/10.58
Packing	Dimensions (WxDxH) (mm/in.)	588 × 524 × 130/ 23.15 × 20.63 × 5.12	588 × 524 × 130/ 23.15 × 20.63 × 5.12	588 × 524 × 130/ 23.15 × 20.63 × 5.12
	Weight (kg/lb.)	8.25	9.07	AC: 7.64/16.84 DC: 6.44/14.2
Included accessories		• Power cord • Rack mounting kit	• Power cord • Rack mounting kit	• Power cord • Rack mounting kit
ESD/Surge Protections				
Ethernet port surge protection		2KV	6KV	-
Power supply surge protection	Line-GND	6KV	6KV	6KV
	Line-Line	6KV	6KV	6KV
Ethernet port ESD protection (air/contact)		8KV/6KV	8KV/6KV	8KV/6KV
Environmental Specifications				
Operating	Temperature	-20°C to 50°C/-4°F to 122°F	-20°C to 50°C/-4°F to 122°F	-20°C to 50°C/-4°F to 122°F
	Humidity	10% to 95% (non-condensing)	10% to 95% (non-condensing)	10% to 95% (non-condensing)
Storage	Temperature	-40°C to 70°C/-40°F to 158°F	-40°C to 70°C/-40°F to 158°F	-40°C to 70°C/-40°F to 158°F
	Humidity	10% to 90% (non-condensing)	10% to 90% (non-condensing)	10% to 90% (non-condensing)
MTBF (hr)		408, 403	227,857	AC: 1,352,563/ DC: 1,149,485
Heat dissipation (BTU/hr)		386.3	918.9	AC: 351.8/DC: 353.8
Acoustic noise @ 25°C (min/max, dBA)		37.5/57.2	38.2/58.3	36.9/57

Software Features

L1 Services

- DDMI*
- Cable Diagnostics*
- ZULD
- SFP Detect

PoE Management (PoE model only)

- Standard/Compatible Mode*
- PoE Neighbor Discovery
- Time-based PoE*
- Auto PD Recovery*
- Continuous PoE
- LLDP Power via MDI

L2-VLAN

- VLANs (Static/Dynamic): 4K/4K
- IEEE 802.1Q Tagged VLAN
- Port-based VLAN
- Protocol-based VLAN
- IP Subnet-based VLAN
- MAC-based VLAN
- Vendor-ID VLAN*
- Voice VLAN*
- Guest VLAN*
- MVR
- GVRP
- VLAN Trunking*

L2 Features

- STP (IEEE 802.1D)*
- RSTP (IEEE 802.1w)*
- MSTP (IEEE 802.1s)
- MRSTP
- BPDU Guard*
- Root Guard
- Loop Guard*
- Flex Link
- LAG Groups/Ports: 15/8
- LACP*
- Static LAG*
- LAG Load Balancing Algorithm
- L2PT
- Flow Control (IEEE 802.3x)
- Static MAC Forwarding
- Static MAC Filter
- MAC Pinning
- MAC Freeze
- MAC Aging Time

L2 Multicast

- IGMP Snooping v1/v2/v3*
- IGMP Per-VLAN*
- Querier*
- IGMP Snooping Querier v2/v3 Selection
- Query Interval
- Unknow Multicast Drop*
- IGMP Report Proxy*
- IGMP Normal Leave*
- IGMP Fast Leave*
- IGMP Immediate Leave*
- IGMP Throttling
- Group Limit per Port*
- IGMP Filtering*
- MLD Snooping v1
- MLD Snooping v2
- Static Multicast Forwarding
- Max Multicast Groups: 4K

Software Features

L3 Routing

- VLAN Routing*
- IPv4 Interfaces: 128*
- IPv4 Host Forwarding Table: 4K
- ARP Entries (Static/Dynamic): 512/4K
- IPv4 Route Table: 12K
- Static Route IPv4: 256*
- IPv6 Interfaces: 64
- IPv6 ND Neighbor Table: 2K
- IPv6 ND Entries (Static/Dynamic): 256/2K
- IPv6 Route Table: 6K
- Static Route IPv6: 128
- Policy-Based Route (PBR)

Security

- Port Security*
- VLAN ingress check*
- VLAN Isolation
- Port Isolation*
- Storm Control*
- DHCP Server Guard*
- Service Access Control*
- Remote Management IPv4*/IPv6
- Password Complexity
- User IP Lockout
- CPU Protection
- Anti ARP Scan
- ErrDisable Detect/Recovery*
- IPv4 IP Source Guard*
- IPv4 Dynamic IP/MAC Binding
- IPv4 Static IP/MAC Binding
- IPv4 DHCP Snooping
- Dynamic ARP Inspection
- IPv6 IP Source Guard
- IPv6 Dynamic IP/MAC Binding
- IPv6 Static IP/MAC Binding
- IPv6 Source Guard Policy
- IPv6 DHCP Snooping

AAA

- IEEE 802.1x Authentication*
- EAPOL Flooding
- Dynamic VLAN Assignment (IEEE 802.1x)*
- Mac Authentication*
- Compound Authentication
- Guest VLAN*
- Privilege Level for management Access
- Login Access authentication
- Authentication by Radius*
- Authentication by Tacacs+
- Authorization by Radius
- Authorization by Tacacs+
- Accounting by Radius
- Accounting by Tacacs+

ACL

- L2/L3/L4 ACL*
- IPv4 ACL: 384*
- IPv6 ACL: 128
- Permit/Drop*
- Redirect/Mirror
- BWM/Remark
- Time-Base ACL

Software Features

QoS

- IEEE 802.1P Queues: 8*
- DSCP (Diffserv)
- SPQ
- WRR
- WERR
- Hybrid-SPQ
- Queue Mapping
- Bandwidth Control*

Management

- NebulaFlex Pro*
- Web-Based GUI IPv4/IPv6 Management
- Networked AV Wizard
- HTTPS
- HTTPS CA Certificate Import
- SSL TLS 1.2
- SSHv2 Server/Client*
- SSH Public Key Authentication
- SSH Host Key
- Telnet Server/Client
- FTP
- SFTP
- TFTP
- SNMP v1/v2c*
- SNMP v3*
- SNMP Trap
- ARP Learning (Reply/G-ARP/Request)
- PPPoE IA
- RMON 1,2,3,9
- sFlow
- LLDP/LLDP-MED*
- Port Mirror*
- Remote Mirror
- Syslog*
- Custom Syslog UDP Port
- DHCP Client*
- DHCP Server IPv4
- DHCP Server IPv6
- DHCP Relay IPv4*
- DHCP Option 82*
- DHCP Relay IPv6
- DHCP Auto Configuration
- NTP
- Daylight Saving
- Dual firmware Images
- Dual Configuration File
- Last Custom Default
- Privilege Levels
- Firmware Integrity Check with SHA-256 Verification
- Web Guest Account
- WoL/WoL Relay

Software Features	
Stacking	• Cluster Management
Green Feature	• IEEE 802.3az (EEE) • Time-Base PoE (PoE Models)* • LED ECO mode
IPv6 Management	• IPv6 over Ethernet (RFC 2464) • IPv6 Addressing Architecture (RFC 4291) • Dual Stack (RFC 4213) • ICMPv6 (RFC 4884) • Path MTU (RFC 1981) • Neighbor Discovery (RFC 4861)
Cloud & Ecosystem	• Nebula Cloud Management* • Zyxel One Network ▪ ZON Utility* • Centralized and batch configurations: ◦ IP configuration ◦ IP renew ◦ Device factory reset ◦ Device reboot ◦ Device locating ◦ Web GUI access ◦ Password configuration ◦ One-click quick association with Zyxel AP Configurator (ZAC) • Automatic detection of the latest firmware • Displays device serial number and hardware version • Cloud mode on/off option for Hybrid series devices • Intuitive Cloud connection status ▪ Smart Connect • Discover neighboring devices • One-click remote management access to the neighboring Zyxel devices • Reset neighboring devices remotely to factory defaults
Future Release	Features below are planned for future firmware patch release • VLAN Stacking (Q-in-Q) • VLAN Mapping • Selective QinQ • VRRP • RIP v1/v2 • OSPFv2 • Multicast Routing • PIM-SM • PIM-DM • Physical Stack • ACL Policy Routing
Standards Compliance	• IEEE 802.3an 10G BASE-T, IEEE 802.3bz 2.5G/5G Base-T Ethernet, IEEE 802.3ab 1000BASE-T, IEEE 802.3z • 1000BASE-X, IEEE 802.3ae 10Gbit/s Ethernet over fiber • IEEE 802.3x Flow Control • IEEE 802.3af PoE, IEEE 802.3at PoE+, IEEE 802.3bt PoE++ (PoE models) • IEEE 802.3az Energy-Efficient Ethernet • IEEE 802.1Q VLAN, IEEE 802.1p CoS, IEEE 802.1D STP, IEEE 802.1w RSTP, IEEE 802.1s MSTP • IEEE 802.1X Port-based Network Access Control • IEEE 802.3ad Link Aggregation (LACP) • IEEE 802.1AB LLDP / LLDP-MED

Software Features

MIB	• Zyxel Common MIB • Zyxel Private MIB • RFC 1066 TCP/IP-based MIB • RFC 1213, 1157 SNMPv2c/v3 MIB • RFC 1493 bridge MIB • RFC 1643 Ethernet MIB • RFC 1757 RMON group 1, 2, 3, 9 • RFC 2011, 2012, 2013 SNMPv2 MIB • RFC 2233 SMIv2 MIB • RFC 2358 Ethernet-like MIB • RFC 2674 bridge MIB extension • RFC 2819, 2925 remote management MIB • RFC 3621 Power Ethernet MIB • RFC 4022 management information base for transmission control protocol • RFC 4113 management information base for user datagram protocol • RFC 4292 IP forwarding table MIB • RFC 4293 management information base (MIB) for IP
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Certifications	• EMC: CE, FCC, RCM, BSMI (Class A) • Safety: LVD, BSMI • Environmental: RoHS
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*Nebula Cloud and Standalone modes supported features. Some Nebula features may need an extra license to work. For more details on the features and licenses, check [Nebula Licensing Table](#).

Accessories

Transceivers (Optional)

Model	Speed	Connector	Wavelength	Max. Distance	DDMI
QSFP100G-SR4	100-Gigabit QSFP28	MPO12	850nm	OM4: 0.1km (109.36yd) OM3: 0.07km (76.55yd)	Yes
QSFP100G-LR4	100-Gigabit QSFP28	Duplex LC	1310nm	10km (10936yd)	Yes
SFP25G-SR	25-Gigabit SFP28	Duplex LC	850nm	OM4: 0.1km (109.36yd) OM3: 0.07km (76.55yd)	Yes
SFP25G-LR	25-Gigabit SFP28	Duplex LC	1310nm	10km (10936yd)	Yes
SFP10G-T*	10-Gigabit SFP+	RJ-45	-	0.03km (32.8yd)** 0.1km (109yd)***	Yes
SFP10G-SR	10-Gigabit SFP+	Duplex LC	850nm	0.3km (328yd)	Yes
SFP10G-SR-E	10-Gigabit SFP+	Duplex LC	850nm	0.3km (328yd)	Yes
SFP10G-LR	10-Gigabit SFP+	Duplex LC	1310nm	10km (10936yd)	Yes
SFP10G-LR-E	10-Gigabit SFP+	Duplex LC	1310nm	10km (10936yd)	Yes
SFP-1000T	Gigabit	RJ-45	-	0.1km (109yd)	-
SFP-SX-D	Gigabit	Duplex LC	850nm	0.55km (601yd)	Yes
SFP-SX-D-E	Gigabit	Duplex LC	850nm	0.55km (601yd)	Yes
SFP-LX-10-D	Gigabit	Duplex LC	1310nm	10km (10936yd)	Yes
SFP-LX-10-D-E	Gigabit	Duplex LC	1310nm	10km (10936yd)	Yes
SFP-BX1310-E	Gigabit	Single LC	1310nm (Tx); 1550nm (Rx)	20km (21872yd)	Yes
SFP-BX1550-E	Gigabit	Single LC	1550nm (Tx); 1310nm (Rx)	20km (21872yd)	Yes

*Note: There are two SFP10G-T models. Please verify compatibility before connecting them to your switch.

1. SFP10G-T-ZZ0101F supports Cat6a/7 cables up to 30 m. When using 10GbE BASE-T copper transceiver modules, use no more than four simultaneously on the CX3800-30/30F, and ensure adequate spacing, ventilation, and airflow around the switch to prevent overheating and ensure reliable operation.

2. SFP10G-T-ZZ0102F supports Cat6a/7 cables up to 100 m. 10GbE BASE-T copper transceiver modules can be used on all 10G SFP+ ports of the CX3800-30/30F, provided that adequate ventilation and airflow around the switch are maintained.

** For SFP10G-T-ZZ0101F

*** For SFP10G-T-ZZ0102F

Multi-Fiber Push On Cable (Optional)

Model	Connector	Cable Length
MPO-10M	MPO12 (female) to MPO12 (female)	10m (393.7inch)

Direct Attach Cables (Optional)

Model	Connector	Cable Length
DAC100G-1M	QSFP28 to QSFP28	1m (39.37inch)
DAC100G-3M	QSFP28 to QSFP28	3m (118.11inch)
DAC25G-1M	SFP28 to SFP28	1m (39.37inch)
DAC25G-3M	SFP28 to SFP28	3m (118.11inch)
DAC10G-1M	SFP+ to SFP+	1m (39.37 inch)
DAC10G-3M	SFP+ to SFP+	3m (118.11 inch)

Ordering Information

Model	EAN	PN
CX3800-30	4718937650620	CX3800-30-ZZ0101F
CX3800-30HP	4718937650668	CX3800-30HP-ZZ0101F
CX3800-30F	4718937650620	CX3800-30F-ZZ0101F
	4718937650644	CX3800-30F-ZZ0102F

For more product information, visit us on the web at www.zyxel.com

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