EDS-4014 Series

8+4G+2 2.5GbE-port managed Ethernet switches



Features and Benefits

- Developed according to the IEC 62443-4-1 and compliant with the IEC 62443-4-2 industrial cybersecurity standards
- Increased bandwidth capabilities with fiber SFP slots supporting up to 2.5 Gbps
- Turbo Ring and Turbo Chain (recovery time < 20 ms @ 250 switches)¹, and RSTP/STP for network redundancy
- · Wide range of power input options for flexible deployment
- · Compact and flexible housing design to fit into confined spaces
- · Supports MXstudio for easy, visualized industrial network management

Certifications



Introduction

The EDS-4014 Series is a range of 14-port managed Fast Ethernet switches with four 1 Gbps and two 2.5 Gbps fiber-optic ports.

Redundant Ethernet technologies such as Turbo Ring, Turbo Chain, and RSTP/STP increase the reliability of your system and improve the availability of your network backbone. The EDS-4014 Series is designed specifically for demanding applications such as video and process monitoring, ITS, and DCS systems, all of which can benefit from a scalable backbone.

The EDS-4014 Series is compliant with the IEC 62443-4-2 and IEC 62443-4-1 Industrial Cybersecurity certifications, which cover both product security and secure development life-cycle requirements, helping our customers meet the compliance requirements of secure industrial network design.

Specifications

Ethernet Interface

10/100BaseT(X) Ports (RJ45 connector)	8 Auto MDI/MDI-X connection Auto negotiation speed Full/Half duplex mode
100/1000BaseSFP Slots	4
1000/2500BaseSFP Ports	2
Standards	IEEE 802.3 for 10BaseT IEEE 802.3u for 100BaseT(X) and 100BaseFX IEEE 802.3ab for 1000BaseT(X) IEEE 802.3z for 1000BaseX IEEE 802.3bz for 2.5GBaseX IEEE 802.3x for flow control IEEE 802.3ad for Port Trunk with LACP IEEE 802.1Q for VLAN Tagging IEEE 802.1D for VLAN Tagging IEEE 802.1D -2004 for Spanning Tree Protocol IEEE 802.1p for Class of Service IEEE 802.1X for authentication

^{1.} If the port link speed is 1 Gigabit or higher, the recovery time is < 50 ms.



Filter GMRP, GVRP, GARP, 802.10 VLAN, IGMP Snooping v1/2/v3, IGMP Querier Management LPAI/PeC, Flow control, Back Pressure Flow Control, DMCP Server/Cited, APP, FARP, ALP, ALP, PAT, HTTP, HTTP, HTTP, HTTP, HTTP, STIP, STIP, SMMP Tag,	Ethernet Software Features	
LLDP, Port Miror, Linkup Delay, SMTP, ISMNP Hrap. SMNP Hork2eov3, MMON, TTP, STP, HTTP, HTTP, STeinet, Syllog, Private MB MIB P-BRIDGE MIB, G-BRIDGE MIB, IEEE8021-SPA-MIB, IEEE8023-JAG-MIB, LLDP-EXT-DOTT-MIB, LLDP-EXT-DOT3-MIB, SNMPv2-MIB, MIB/NON MIB Groups 1, 2, 3, 9 Redundancy Protocols STP, RSTP, Turbo Ring v2, Turbo Chain, Ring Coupling, Dual-Homing, Link Aggregation, MSTP Security Broadcast titon protocion, Relu Linit, Trust access control. Static Part Lock. MAC Bricky, HTTPS/SSL, SSH, RADIUS, TACACS+, Access control list, Login and Password Prolog Time Management SNTP, NTP Server/Client, NTP Authentication Prolocols Pava/IPv6, TCP/IP, UDP, ICMP, ARP, RARP, TTP, DNS, NTP Client, DICP Server, DHCP Client, 802, 1X, QoS, MTPS, HTTP, Teinet, SMTP, SMMP 1/v2c/v3, RMON, Syslog Switch Properties 16 K MAC Table Size 16 K Jumbo Frane Size 9.216 KB Mac Table Size 16 K Jumbo Frane Size 9.216 KB MAC Table Size 11 NB LED Interface 12 Priority Queues 4 Protocols PWH, PWR2, STATE, FAULT, MSTR/HEAD, CPLR/TALL, SYNC Serial Interface 12 LED Interface 14 USB Interface 12 Synchy Copu	Filter	GMRP, GVRP, GARP, 802.1Q VLAN, IGMP Snooping v1/v2/v3, IGMP Querier
IEEEB023-LAG-MIB, LDP-EXT-DOTI-MIB, LDP-EXT-DOTI-MIB, SNMP-v2-MIB, MNON MIB Groups 1, 2, 3 y Redundancy Protocols STP, RSTP, Turbo Ring V2, Turbo Chain, Ring Coupling, Dual-Homing, Link Aggregation, MSTP Security Bradcast storm protocols, Rate Limit, Trust access control list, Login and Password Policy Sticky, HTP/SSL, SSH, RADUS, TACACS+, Access control list, Login and Password Policy Time Management Protocols IPvd/Polint, NTP Authentication Protocols IPvd/Polint, S0:17, PJ, UDP, ICMP, ARP, RARP, TFTP, DNS, NTP Client, DHOP Server, DHOP Client, 82:1X, DoS, HTTPS, HTP, Telnet, SMTP, SNMP/V/v2o/V3, RMON, Sylog Switch Properties 18 K MAC Table Size 18 K Jumbo Framo Size 9.216 KB Max: No. of VLANa 256 VLAN ID Range VID to 4094 IGMP Groups 512 Priority Queues 4 Packet Buffer Size 1MB LED Indicators PWR1, PWR2, STATE, FAULT, MSTR/HEAD, CPLR/TAIL, SYNC Serial Interface LED Indicators USB Connector USB Type A (Reserved) Input/Output Interface VID to 4304 (restate 1 - 30 to 34 y for state 1 - 30 to 34 y for state 1 - 30 to 34 y for state 1 - 30 to 43 y for state 0 - 30 to 43 y for state 1 - 30 to 43 y for state 1	Management	LLDP, Port Mirror, Linkup Delay, SMTP, SNMP Trap, SNMP Inform, SNMPv1/v2c/v3,
Aggregation, MSTP Security Broadcast storm protoction, Rate Limit, Trust access control Lock, MAC Stick, MTPS/SSL, SSH, RADIUS, TACACS+, Access control list, Login and Password Policy Time Management SMTP, NTP Server/Client, NTP Authentication Protocols BrV4/APv6, TCP/PL UDP, ICMP, ARP, RARP, TFTP, DNS, NTP Client, DHCP Server, DHCP Client, 80:1X, OoS, MTTPS, HTTP, Teinet, SMTP, SNMPv1/v2/v3, RMON, Syslog Switch Properties 16 K MAC Table Size 16 K Jumbo Frame Size 9:216 KB Max. No. of VLANs 256 VLAN ID Range VID 10:4094 MAC Table Size 110 Prointy Queues 4 Packet Buffer Size 1MB LED Indicators PWR1, PWR2, STATE, FAULT, MSTR/HEAD, CPLR/TAIL, SYNC Serial Interface 100 USB Connector USB Type A (Reserved) INS Connector USB Type A (Reserved) Input/Output Interface 1 Aggregation, MSTP 1310 - 300 trys trate 0 Max. Input Current 8 mA Input/Output Interface 1 Input/Output Interface 1 Input/Output Interface 1 Input/Output In	МІВ	IEEE8023-LAG-MIB, LLDP-EXT-DOT1-MIB, LLDP-EXT-DOT3-MIB, SNMPv2-MIB,
Sitchy, HTTPS/SSL, SSH, RADIUS, TACACS+, Access control list, Login and Password Policy Time Management SNTP, NTP Server/Client, NTP Authentication Protocols IPv4/PNF, TCP/PP, UDP, ICMP, ARP, RAPP, TTTP, DNS, NTP Client, DHCP Server, DHCP Client, 802.1X, QoS, HTTPS, HTTP, Teinet, SMTP, SNMPv1/v2cv3, RMON, Syslog Switch Properties MAC Table Size MAC Table Size 16 K Jumbo Frame Size 9.216 KB Max. No. of VLANs 256 VLAN ID Range VID 1 to 4094 IGMP Groups 512 Priority Queeus 4 Packet Buffer Size 1 MB LED Interface USB Interface GNS Gornector USB Type A (Reserved) JURU/Output Interface 1, Relay output with current carrying capacity of 1 A @ 24 VDC Digital Input S 1 1 1 0 400 V for state 1 1 -00 (+ 34 V or state 0 Max, Input current 8 mA	Redundancy Protocols	
Protocols IPv/JPv6, TCP/IP, UDP, ICMP, ARP, RARP, TTTP, DNS, NTP Client, DHCP Server, DHCP Client, 802.1X, QoS, HTTPS, HTTP, Teinet, SMTP, SNMPv1/v2c/v3, RMON, Syslog Switch Properties 16 K MAC Table Size 16 K Jumbo Frame Size 9.218 KB Max. No. of VLANS 256 VLAN ID Range VID 1 to 4094 IGMP Groups 512 Priority Queues 4 Packet Buffer Size 1MB LED Indicators PWR1, PWR2, STATE, FAULT, MSTR/HEAD, CPLR/TAIL, SYNC Serial Interface USB Type A (Reserved) USB Connector USB Type A (Reserved) Input/Output Interface 1 Aarm Contact Channels 1 Digital Input Channels 1 Solital Input Same 1 Digital Input Same 1 Suttoms Reset button	Security	Sticky, HTTPS/SSL, SSH, RADIUS, TACACS+, Access control list, Login and Password
DHCP Client, 802.1X, QoS, HTTPS, HTTP, Teinet, SMTP, SNMPP1/v2c/v3, RMON, Syelog Switch Properties MAC Table Size 16 K Jumbo Frame Size 9.216 KB Max. No. of VLANs 256 VLAN ID Range VID 1 to 4094 IGMP Groups 512 Priority Queues 4 Packet Buffer Size 1 MB LED Interface 1 LED Interface VID1, PWR2, STATE, FAULT, MSTR/HEAD, CPLR/TAIL, SYNC Serial Interface VISB Connector USB Connector USB Type A (Reserved) Input/Output Interface 1 Aram Contact Channels 1 Digital Input Channels 1 Digital Input Channels 1 Digital Input Channels 1 Postor SU or >30 V for state 1 <30 to >30 V for state 0 Max. input current: 8 mA Buttons Reset button	Time Management	SNTP, NTP Server/Client, NTP Authentication
MAC Table Size16 KJumbo Frame Size9.216 KBMax. No. of VLANS256VLAN ID RangeVID 1 to 4094IGMP Groups512Priority Queues4Packet Buffer Size1 MBLED InterfaceLED InterfaceSerial InterfaceConsole PortRS-232 (TxD, RxD, GND), 8-pin RJ45 (115200, n, 8, 1)USB ConnectorUSB Type A (Reserved)Input/Output Interface1, Relay output with current carrying capacity of 1 A @ 24 VDCDigital Input Channels1Digital Inputs+13 to +30 V for state 1 -30 to +3V for state 0 Max. input current 8 mAButtonsReset button	Protocols	DHCP Client, 802.1X, QoS, HTTPS, HTTP, Telnet, SMTP, SNMPv1/v2c/v3, RMON,
Jumbo Frame Size9.216 KBJumbo Frame Size9.216 KBMax. No. of VLANs266VLAN ID RangeVID 1 to 4094IGMP Groups512Priority Queues4Packet Buffer Size1 MBLED InterfacePWR1, PWR2, STATE, FAULT, MSTR/HEAD, CPLR/TAIL, SYNCSerial InterfaceVID State, FAULT, MSTR/HEAD, CPLR/TAIL, SYNCUSB InterfaceUSB Type A (Reserved)IUSB Connector1 MBInput//Output InterfaceUSB Type A (Reserved)Input//Output Interface1Jarm Contact Channels1Digital Inputs113 to +30 V for state 1 -30 to +30 V for state 1 <br< td=""><td>Switch Properties</td><td></td></br<>	Switch Properties	
Max. No. of VLANs256MAx. No. of VLANs256VLAN ID RangeVID 1 to 4094IGMP Groups512IGMP Groups4Packet Buffer Size1 MBLED InterfaceVDR1, PWR2, STATE, FAULT, MSTR/HEAD, CPLR/TAIL, SYNCSerial InterfaceRS-232 (TxD, RxD, GND), 8-pin RJ45 (115200, n, 8, 1)USB InterfaceUSB Type A (Reserved)USB Interface1Input/Output Interface1, Relay output with current carrying capacity of 1 A @ 24 VDCDigital Inputs11 03 V for state 1 Max. input current: 8 mAButtonsReset buttonButtonsReset button	MAC Table Size	16 K
VLAN ID RangeVID 1 to 4094VID To 4094512IGMP Groups512Priority Queues4Packet Buffer Size1 MBLED InterfaceFriority Department of the State St	Jumbo Frame Size	9.216 KB
IGMP Groups512IGMP Groups512Priority Queues4Packet Buffer Size1 MBLED InterfacePWR1, PWR2, STATE, FAULT, MSTR/HEAD, CPLR/TAIL, SYNCLED IndicatorsPWR1, PWR2, STATE, FAULT, MSTR/HEAD, CPLR/TAIL, SYNCSerial InterfaceSerial InterfaceConsole PortRS-232 (TxD, RxD, GND), 8-pin RJ45 (115200, n, 8, 1)USB InterfaceUSB Type A (Reserved)Input/Output InterfaceUSB Type A (Reserved)Input/Output Interface1, Relay output with current carrying capacity of 1 A @ 24 VDCDigital Input Channels1Digital Inputs:30 to 30 V for state 0 Max. input current: 8 mAButtonsReset buttonDIP Switch Configuration	Max. No. of VLANs	256
Priority Queues4Packet Buffer Size1 MBLED InterfaceLED InterfacePWR1, PWR2, STATE, FAULT, MSTR/HEAD, CPLR/TAIL, SYNCSerial InterfaceRS-232 (TxD, RxD, GND), 8-pin RJ45 (115200, n, 8, 1)Console PortRS-232 (TxD, RxD, GND), 8-pin RJ45 (115200, n, 8, 1)USB InterfaceUSB Type A (Reserved)USB ConnectorUSB Type A (Reserved)Input/Output Interface1, Relay output with current carrying capacity of 1 A @ 24 VDCDigital Input Channels1Digital Inputs+13 to +30 V for state 1 -30 to +3 V for state 0 Max. input current: 8 mAButtonsReset buttonDIP Switch Configuration	VLAN ID Range	VID 1 to 4094
Packet Buffer Size1 MBLED InterfaceLED IndicatorsPWR1, PWR2, STATE, FAULT, MSTR/HEAD, CPLR/TAIL, SYNCSerial InterfaceConsole PortRS-232 (TxD, RxD, GND), 8-pin RJ45 (115200, n, 8, 1)USB InterfaceUSB InterfaceUSB ConnectorUSB Type A (Reserved)Input/Output InterfaceAlarm Contact Channels1, Relay output with current carrying capacity of 1 A @ 24 VDCDigital Inputs+13 to +30 V for state 1 -30 to +3 V for state 0 Max. input current: 8 mAButtonsReset button	IGMP Groups	512
LED Interface LED Indicators PWR1, PWR2, STATE, FAULT, MSTR/HEAD, CPLR/TAIL, SYNC Serial Interface Console Port RS-232 (TxD, RxD, GND), 8-pin RJ45 (115200, n, 8, 1) USB Interface USB Connector USB Type A (Reserved) Input/Output Interface Alarm Contact Channels 1, Relay output with current carrying capacity of 1 A @ 24 VDC Digital Inputs +13 to +30 V for state 1 -30 to +30 V for state 0 Max. input current: 8 mA Buttons Reset button DIP Switch Configuration	Priority Queues	4
LED Indicators PWR1, PWR2, STATE, FAULT, MSTR/HEAD, CPLR/TAIL, SYNC Serial Interface RS-232 (TxD, RxD, GND), 8-pin RJ45 (115200, n, 8, 1) USB Interface USB Type A (Reserved) USB Connector USB Type A (Reserved) Input/Output Interface 1, Relay output with current carrying capacity of 1 A @ 24 VDC Digital Input Channels 1 Digital Inputs +13 to +30 V for state 1 -30 to +30 V for state 0 Max. input current: 8 mA Buttons Reset button	Packet Buffer Size	1 MB
Serial Interface Console Port RS-232 (TxD, RxD, GND), 8-pin RJ45 (115200, n, 8, 1) USB Interface USB Type A (Reserved) Input/Output Interface Input/Output Interface Alarm Contact Channels 1, Relay output with current carrying capacity of 1 A @ 24 VDC Digital Input Channels 1 Digital Inputs +13 to +30 V for state 1 -30 to +3 V for state 0 Max. input current: 8 mA Buttons Reset button	LED Interface	
Console PortRS-232 (TxD, RxD, GND), 8-pin RJ45 (115200, n, 8, 1)USB InterfaceUSB Type A (Reserved)Usb ConnectorUSB Type A (Reserved)Input/Output Interface1, Relay output with current carrying capacity of 1 A @ 24 VDCAlarm Contact Channels1Digital Input Channels1Digital Inputs+13 to +30 V for state 1 -30 to +3 V for state 0 Max. input current: 8 mAButtonsReset buttonDIP Switch Configuration	LED Indicators	PWR1, PWR2, STATE, FAULT, MSTR/HEAD, CPLR/TAIL, SYNC
USB Interface USB Connector USB Type A (Reserved) Input/Output Interface 1, Relay output with current carrying capacity of 1 A @ 24 VDC Alarm Contact Channels 1 Digital Input Channels 1 Digital Inputs +13 to +30 V for state 1 -30 to +3 V for state 0 Max. input current: 8 mA Buttons Reset button DIP Switch Configuration	Serial Interface	
USB ConnectorUSB Type A (Reserved)Input/Output InterfaceAlarm Contact Channels1, Relay output with current carrying capacity of 1 A @ 24 VDCDigital Input Channels1Digital Inputs+13 to +30 V for state 1 -30 to +3 V for state 0 Max. input current: 8 mAButtonsReset buttonDIP Switch Configuration	Console Port	RS-232 (TxD, RxD, GND), 8-pin RJ45 (115200, n, 8, 1)
Input/Output Interface Alarm Contact Channels 1, Relay output with current carrying capacity of 1 A @ 24 VDC Digital Input Channels 1 Digital Inputs +13 to +30 V for state 1 -30 to +3 V for state 0 Max. input current: 8 mA Buttons Reset button DIP Switch Configuration	USB Interface	
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Digital Input Channels 1 Digital Inputs +13 to +30 V for state 1 -30 to +3 V for state 0 Max. input current: 8 mA Buttons Reset button DIP Switch Configuration	Input/Output Interface	
Digital Inputs +13 to +30 V for state 1 -30 to +3 V for state 0 Max. input current: 8 mA Buttons Reset button DIP Switch Configuration	Alarm Contact Channels	1, Relay output with current carrying capacity of 1 A @ 24 VDC
-30 to +3 V for state 0 Max. input current: 8 mA Buttons Reset button DIP Switch Configuration	Digital Input Channels	1
DIP Switch Configuration	Digital Inputs	-30 to +3 V for state 0
	Buttons	Reset button
DIP Switches Turbo Ring, Master, Coupler, Reserve	DIP Switch Configuration	
	DIP Switches	Turbo Ring, Master, Coupler, Reserve



Power Parameters

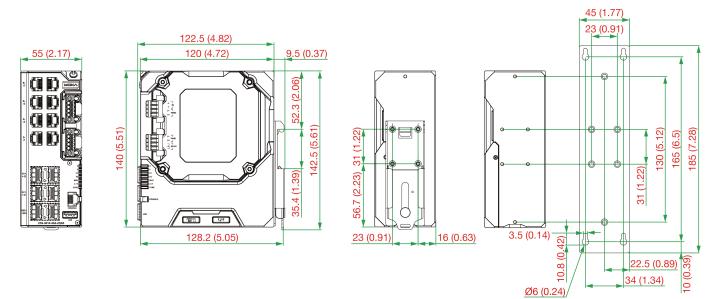
Power Parameters	
Connection	2 removable 4-contact terminal block(s)
Pre-installed Power Module	-LV/-LV-T models: PWR-100–LV -HV/-HV-T models: PWR-105-HV-I
Note	The EDS-4014 Series supports modular power supplies. The model names and power parameters are determined by the installed power module.
	For example: EDS-4014-4GS-2QGS-T + PWR-100-LV = EDS-4014-4GS-2QGS-LV-T EDS-4014-4GS-2QGS-T + PWR-105-HV-I = EDS-4014-4GS-2QGS-HV-T
	If you install a different power module, refer to the specifications of the corresponding model. For example, if you replace the power module of the EDS-4014-4GS-2QGS-LV-T with the PWR-105-HV-I, refer to the specifications of the EDS-4014-4GS-2QGS-HV-T.
Input Voltage	-LV/-LV-T models: 12/24/48 VDC, Redundant dual inputs -HV/-HV-T models: 110/220 VDC/VAC, Single input
Operating Voltage	-LV/-LV-T models: 9.6 to 60 VDC -HV/-HV-T models: 88 to 300 VDC, 85 to 264 VAC
Input Current	-LV/-LV-T models: 12-48 VDC, 1.50-0.40 A or 24 VDC, 0.70 A -HV/-HV-T models: 110-220 VAC, 50-60 Hz, 0.30-0.20 A or 110-220 VDC, 0.30-0.20 A
Power Consumption (Max.)	EDS-4014-4GS-2QGS-LV(-T) models: 12.15 W EDS-4014-4GS-2QGS-HV(-T) models: 14.44 W
Overload Current Protection	Supported
Reverse Polarity Protection	Supported
Physical Characteristics	
IP Rating	IP40
Dimensions	55 x 140 x 122.5 mm (2.17 x 5.51 x 4.82 in)
Weight	846 g (1.87 lb)
Installation	DIN-rail mounting, Wall mounting (with optional kit)
Housing	Metal
Environmental Limits	
Operating Temperature	Standard Models: -10 to 60°C (14 to 140°F) Wide Temp. Models: -40 to 75°C (-40 to 167°F)
Standards and Certifications	
Industrial Cybersecurity	IEC 62443-4-1 IEC 62443-4-2
Safety	UL 61010-2-201, EN 62368-1 (LVD)
EMC	EN 55032/35, EN 61000-6-2/-6-4
EMI	CISPR 32, FCC Part 15B Class A
EMS	IEC 61000-4-2 ESD: Contact: 8 kV; Air: 15 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 20 V/m IEC 61000-4-4 EFT: Power: 4 kV; Signal: 4 kV IEC 61000-4-5 Surge: Power: 4 kV; Signal: 4 kV IEC 61000-4-6 CS: 10 V IEC 61000-4-8 PFMF
Maritime	-LV/-LV-T models: DNV, ABS, NK, LR



Vibration	IEC 60068-2-6
Shock	IEC 60068-2-27
Freefall	IEC 60068-2-32
Railway	EN 50121-4
Traffic Control	NEMA TS2
Power Substation	IEC 61850-3, IEEE 1613 Class 1
Hazardous Locations	Class I Division 2, ATEX, IECEx
MTBF	
Time	EDS-4014-4GS-2QGS-LV/LV-T: 1,003,814 hrs EDS-4014-4GS-2QGS-HV/HV-T: 489,769 hrs
Warranty	
Warranty Period	5 years
Details	See www.moxa.com/warranty
Package Contents	
Device	1 x EDS-4014 Series switch
Documentation	 x quick installation guide x product notice, Simplified Chinese x product certificates of quality inspection, Simplified Chinese x warranty card

Dimensions

Unit: mm (inch)



Ordering Information

Model Name	10/100BaseT(X) Ports (RJ45 Connector)	100/1000BaseSFP Ports	1000/ 2500BaseSFP Ports	Operating Voltage	Pre-installed Power Module	Operating Temp.
EDS-4014-4GS-2QGS-LV	8	4	2	9.6 to 60 VDC	PWR-100-LV	-10 to 60°C
EDS-4014-4GS-2QGS-LV-T	8	4	2	9.6 to 60 VDC	PWR-100-LV	-40 to 75°C



Model Name	10/100BaseT(X) Ports (RJ45 Connector)	100/1000BaseSFP Ports	1000/ 2500BaseSFP Ports	Operating Voltage	Pre-installed Power Module	Operating Temp.
EDS-4014-4GS-2QGS-HV	8	4	2	88 to 300 VDC, 85 to 264 VAC	PWR-105-HV-I	-10 to 60°C
EDS-4014-4GS-2QGS-HV- T	8	4	2	88 to 300 VDC, 85 to 264 VAC	PWR-105-HV-I	-40 to 75°C

Accessories (sold separately)

SFP Modules	
SFP-1GEZXLC	SFP module with 1 1000BaseEZX port with LC connector for 110 km transmission, 0 to 60°C operating temperature
SFP-1GEZXLC-120	SFP module with 1 1000BaseEZX port with LC connector for 120 km transmission, 0 to 60°C operating temperature
SFP-1GLHLC	SFP module with 1 1000BaseLH port with LC connector for 30 km transmission, 0 to 60°C operating temperature
SFP-1GLHXLC	SFP module with 1 1000BaseLHX port with LC connector for 40 km transmission, 0 to 60°C operating temperature
SFP-1GLSXLC	SFP module with 1 1000BaseLSX port with LC connector for 1km/2km transmission, 0 to 60°C operating temperature
SFP-1GLXLC	SFP module with 1 1000BaseLX port with LC connector for 10 km transmission, 0 to 60° C operating temperature
SFP-1GSXLC	SFP module with 1 1000BaseSX port with LC connector for 300m/550m transmission, 0 to 60° C operating temperature
SFP-1GZXLC	SFP module with 1 1000BaseZX port with LC connector for 80 km transmission, 0 to 60°C operating temperature
SFP-1GLHLC-T	SFP module with 1 1000BaseLH port with LC connector for 30 km transmission, -40 to 85° C operating temperature
SFP-1GLHXLC-T	SFP module with 1 1000BaseLHX port with LC connector for 40 km transmission, -40 to 85° C operating temperature
SFP-1GLSXLC-T	SFP module with 1 1000BaseLSX port with LC connector for $1 \text{ km}/2 \text{ km}$ transmission, -40 to 85°C operating temperature
SFP-1GLXLC-T	SFP module with 1 1000BaseLX port with LC connector for 10 km transmission, -40 to 85° C operating temperature
SFP-1GSXLC-T	SFP module with 1 1000BaseSX port with LC connector for 300m/550m transmission, -40 to 85° C operating temperature
SFP-1GZXLC-T	SFP module with 1 1000BaseZX port with LC connector for 80 km transmission, -40 to 85° C operating temperature
SFP-1G10ALC	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 10 km transmission; TX 1310 nm, RX 1550 nm, 0 to 60°C operating temperature
SFP-1G10BLC	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 10 km transmission; TX 1550 nm, RX 1310 nm, 0 to 60°C operating temperature
SFP-1G20ALC	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 20 km transmission; TX 1310 nm, RX 1550 nm, 0 to 60°C operating temperature
SFP-1G20BLC	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 20 km transmission; TX 1550 nm, RX 1310 nm, 0 to 60°C operating temperature
SFP-1G40ALC	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 40 km transmission; TX 1310 nm, RX 1550 nm, 0 to 60°C operating temperature
SFP-1G40BLC	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 40 km transmission; TX 1550 nm, RX 1310 nm, 0 to 60°C operating temperature
SFP-1G10ALC-T	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 10 km transmission; TX 1310 nm, RX 1550 nm, -40 to 85°C operating temperature
SFP-1G10BLC-T	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 10 km transmission; TX 1550 nm, RX 1310 nm, -40 to 85°C operating temperature



SFP-1G20ALC-T	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 20 km transmission; TX 1310 nm, RX 1550 nm, -40 to 85° C operating temperature
SFP-1G20BLC-T	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 20 km transmission; TX 1550 nm, RX 1310 nm, -40 to 85°C operating temperature
SFP-1G40ALC-T	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 40 km transmission; TX 1310 nm, RX 1550 nm, -40 to 85°C operating temperature
SFP-1G40BLC-T	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 40 km transmission; TX 1550 nm, RX 1310 nm, -40 to 85° C operating temperature
SFP-1FELLC-T	SFP module with 1 100Base single-mode with LC connector for 80 km transmission, -40 to 85° C operating temperature
SFP-1FEMLC-T	SFP module with 1 100Base multi-mode, LC connector for 2/4 km transmission, -40 to 85°C operating temperature
SFP-1FESLC-T	SFP module with 1 100Base single-mode with LC connector for 40 km transmission, -40 to 85°C operating temperature
SFP-2.5GSLC-T	SFP module with 1 2.5GBaseFX port with LC connector, single-mode, for 5 km transmission, -40 to 85 °C operating temperature
SFP-2.5GLSLC-T	SFP module with 1 2.5GBaseFX port with LC connector, single-mode, for 20 km transmission, -40 to 85 $^\circ\text{C}$ operating temperature
SFP-2.5GMLC-T	SFP module with 1 2.5GBaseFX port with LC connector, multi-mode, for 170, 200, 550, 600 m transmission, -40 to 85 °C operating temperature
SFP-2.5GSLHLC-T	SFP module with 1 2.5GBaseFX port with LC connector, single-mode, for 45 km transmission, -40 to 85 $^\circ\text{C}$ operating temperature
Power Supplies	
HDR-60-24	60 W/2.5 A DIN-rail 24 VDC power supply, universal 85 to 264 VAC or 120 to 370 VDC input voltage, -30 to 70°C operating temperature
NDR-120-24	120 W/5.0 A DIN-rail 24 VDC power supply, universal 90 to 264 VAC or 127 to 370 VDC input voltage, -20 to 70°C operating temperature
NDR-120-48	120 W/2.5 A DIN-rail 48 VDC power supply, universal 90 to 264 VAC or 127 to 370 VDC input voltage, -20 to 70° C operating temperature
NDR-240-48	240 W/5.0 A DIN-rail 48 VDC power supply, universal 90 to 264 VAC or 127 to 370 VDC input voltage, -20 to 70° C operating temperature
MDR-40-24	DIN-rail 24 VDC power supply with 40W/1.7A, 85 to 264 VAC, or 120 to 370 VDC input, -20 to 70°C operating temperature
MDR-60-24	DIN-rail 24 VDC power supply with 60W/2.5A, 85 to 264 VAC, or 120 to 370 VDC input, -20 to 70° C operating temperature

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