

CentreCOM® SE240 Series

Multi-Gigabit Edge Switches

Allied Telesis CentreCOM SE240 Series Layer 2+ multi-gigabit switches are compact and feature-rich, making them ideal for high-speed application connectivity at the network edge.

Overview

Allied Telesis CentreCOM SE240 Series switches provide flexible edge connectivity with 10M/100M/1/2.5/5G speeds supporting both legacy and high-speed end devices, as well as performance upgrades over existing Cat5e building cables. Power over Ethernet (PoE++) models enable connecting and powering next-generation wireless access points, video surveillance cameras and more with up to 90W power delivery. With 8, 16, or 24 multi-gigabit ports and 10 gigabit SFP+ uplinks, the SE240 Series meets modern network edge demands.

Specifications

Performance

- ▶ Up to 32K MAC addresses
- ▶ Up to 100 multicast entries
- ▶ 1GB DDR4 SDRAM
- ▶ 4094 configurable VLANs
- ▶ 256MB flash memory
- ▶ Packet Buffer memory: 3MB
- ▶ Supports 9KB L2 jumbo frames
- ▶ Wirespeed forwarding

Diagnostic tools

- ▶ Active Fiber Monitoring detects tampering on optical links
- ▶ Built-In Self Test (BIST)
- ▶ Find-me device locator
- ▶ Cable fault locator (TDR)
- ▶ Optical Digital Diagnostics Monitoring (DDM)
- ▶ Automatic link flap detection and port shutdown
- ▶ Ping polling for IPv4 and IPv6
- ▶ Port and VLAN mirroring (RSPAN)
- ▶ Link monitoring
- ▶ UniDirectional Link Detection (UDLD)
- ▶ TraceRoute for IPv4 and IPv6

IP Features

- ▶ Device management over IPv6 networks with SNMPv6, Telnetv6, SSHv6
- ▶ DHCPv4 client and relay



Management

- ▶ Allied Telesis Autonomous Management Framework™ Plus (AMF Plus) enables powerful centralized management, zero-touch device installation and recovery, and the intent-based management features in Vista Manager EX (from v3.10.1)
- ▶ Manage the SE240 Series with Vista Manager EX—our graphical single-pane-of-glass monitoring and management tool for AMF Plus networks, which also supports wireless and third party devices
- ▶ Console management port on the front panel for ease of access
- ▶ NETCONF/RESTCONF northbound interface with YANG data modelling
- ▶ Eco-friendly mode allows ports and LEDs to be disabled to save power
- ▶ Industry-standard CLI with context-sensitive help
- ▶ Powerful CLI scripting engine
- ▶ Comprehensive SNMP MIB support for standards-based device management
- ▶ Built-in text editor
- ▶ Event-based triggers allow user-defined scripts to be executed upon selected system events
- ▶ Management stacking allows up to 24 devices to be managed from a single console
- ▶ Web-based Graphical User Interface (GUI)
- ▶ sFlow enables traffic monitoring in switched networks
- ▶ A USB socket allows software releases, configuration, and other files to be stored for backup and distribution to other devices

Quality of Service (QoS)

- ▶ Eight priority queues with a hierarchy of high-priority queues for real-time traffic, and mixed scheduling, for each switch port
- ▶ Limit bandwidth per port or per traffic class down to 64kbps
- ▶ Wirespeed traffic classification with low latency essential for VoIP and real-time streaming media applications
- ▶ Policy-based QoS based on VLAN, port, MAC and general packet classifiers
- ▶ Policy-based storm protection
- ▶ Extensive remarking capabilities
- ▶ Taildrop for queue congestion control
- ▶ Strict priority, weighted round robin or mixed scheduling
- ▶ IP precedence and DiffServ marking based on Layer 2, 3 and 4 headers

Resiliency Features

- ▶ Control Plane Prioritization (CPP) ensures the CPU always has sufficient bandwidth to process network control traffic
- ▶ Dynamic link failover (host attach)
- ▶ EPSRing™ (Ethernet Protection Switched Rings) with enhanced recovery
- ▶ Loop protection: loop detection and thrash limiting
- ▶ RRP snooping
- ▶ Spanning Tree Protocols (STP, RSTP, MSTP)
- ▶ PVST+ compatibility mode
- ▶ STP root guard

Security Features

- ▶ Access Control Lists (ACLs) based on Layer 2, 3 and 4 headers
- ▶ Dynamic ACLs assigned via port authentication
- ▶ ACL Groups enable multiple hosts/ports to be included in a single ACL, reducing configuration
- ▶ Configurable auth-fail and guest VLANs
- ▶ RADIUS and TACACS+ Authentication, Authorization and Accounting (AAA)
- ▶ Bootloader can be password protected for device security
- ▶ BPDU protection
- ▶ DHCP snooping, IP source guard and Dynamic ARP Inspection (DAI)

Key Features

- ▶ Autonomous Management Framework™ Plus (AMF Plus) edge node
- ▶ Vista Manager compatible
- ▶ 10M/100M/1/2.5/5G multi-gigabit ports
- ▶ 10 Gigabit uplinks
- ▶ Up to 90W PoE++ power per port
- ▶ EPSRing™ for resilient ring-based topologies
- ▶ Active Fiber Monitoring (AFM)
- ▶ Link Monitoring
- ▶ Flexible ACLs
- ▶ NETCONF/RESTCONF with YANG data modelling

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Product Specifications

PRODUCT	10M/100M/1/2.5/5 GIGABIT PORTS	1/10 GIGABIT SFP+ PORTS	TOTAL PORTS	POE ENABLED PORTS	SWITCHING FABRIC	FORWARDING RATE
SE240-10GHXm	8	2	10	8	120Gbps	89.3Mpps
SE240-10GTXm	8	2	10	-	120Gbps	89.3Mpps
SE240-18GHXm ¹	16	2	18	16	200Gbps	148.8Mpps
SE240-18GTXm ¹	16	2	18	-	200Gbps	148.8Mpps
SE240-26GHXm ²	24	2	26	24	280Gbps	208.3Mpps
SE240-26GTXm ²	24	2	26	-	280Gbps	208.3Mpps

Physical specifications

PRODUCT	WIDTH X DEPTH X HEIGHT	WEIGHT	PACKAGED DIMENSIONS	WEIGHT
SE240-10GHXm	210 x 346 x 42.5 mm (8.27 x 13.62 x 1.67 in)	2.7 kg	461 x 371 x 153 mm (18.15 x 14.60 x 6.02 in)	3.8 kg
SE240-10GTXm	210 x 275 x 42.5 mm (8.27 x 10.83 x 1.67 in)	1.9 kg	433 x 257 x 102 mm (17.44 x 10.12 x 4.01 in)	2.6 kg
SE240-18GHXm ¹	341 x 231 x 44 mm (13.42 x 9.09 x 1.73 in)	TBD	TBD	TBD
SE240-18GTXm ¹	341 x 231 x 44 mm (13.42 x 9.09 x 1.73 in)	TBD	TBD	TBD
SE240-26GHXm ²	440 x 290 x 44 mm (17.32 x 11.42 x 1.73 in)	4.3 kg	547 x 364 x 115 mm (21.53 x 14.33 x 4.53 in)	5.6 kg
SE240-26GTXm ²	440 x 290 x 44 mm (17.32 x 11.42 x 1.73 in)	3.7 kg	547 x 364 x 115 mm (21.53 x 14.33 x 4.53 in)	5.0 kg

Power characteristics

PRODUCT	NO POE LOAD			FULL POE+ LOAD			MAX POE POWER (W)	POE SOURCING PORTS					
	MAX POWER CONSUMPTION (W)	MAX HEAT DISSIPATION (BTU/H)	NOISE* (DBA)	MAX POWER CONSUMPTION (W)	MAX HEAT DISSIPATION (BTU/H)	NOISE* (DBA)		POE (7.5W)	POE (15.4W)	POE + (30W)	POE ++ (45W)	POE ++ (60W)	
SE240-10GHXm	44	150	32-39	340	1200	39-55	240	8	8	8	5	4	2
SE240-10GTXm	38	130	32-39	-	-	-	-	-	-	-	-	-	-
SE240-18GHXm ¹	TBD	TBD	TBD	TBD	TBD	TBD	247	16	16	8	5	4	2
SE240-18GTXm ¹	TBD	TBD	TBD	-	-	-	-	-	-	-	-	-	-
SE240-26GHXm ²	86	290	38-52	540	1900	41-58	370	24	24	12	8	6	4
SE240-26GTXm ²	83	280	38-45	-	-	-	-	-	-	-	-	-	-

* NOISE Under 30°C to 50°C

Latency (microseconds)

PRODUCT	1GBPS	2.5GBPS	5GBPS	10GBPS
SE240-10GHXm	5.6	8.7	6.1	2.9
SE240-10GTXm	4.5	8.7	5.9	2.9
SE240-18GHXm ¹	TBD	TBD	TBD	TBD
SE240-18GTXm ¹	TBD	TBD	TBD	TBD
SE240-26GHXm ²	4.5	8.6	6.0	3.0
SE240-26GTXm ²	4.4	8.6	5.9	2.9

¹ 18-port models available in the future

² 26-port models available in the future

- Dynamic VLAN assignment
- MAC address filtering and MAC address lock-down
- Network Access and Control (NAC) features manage endpoint security
- Port-based learn limits (intrusion detection)
- Secure Copy (SCP)
- Strong password security and encryption
- Tri-authentication: MAC-based, Web-based and IEEE 802.1x
- Secure File Transfer Protocol (SFTP)

VLAN Support

- Voice VLAN

- Private VLANs provide security and port isolation for multiple customers using the same VLAN

Environmental Specifications

Operating ambient temp.	0°C to 50°C (32°F to 122°F)
Storage temp.	-25°C to 70°C (-13°F to 158°F)
Operating humidity	5% to 90% non-condensing
Storage humidity	5% to 95% non-condensing
Maximum operating	Altitude 3,000 m (9,842 ft)
Maximum Non operating	Altitude 4,000 m (13,100 ft)

Electrical Approvals and Compliances

- EMC: EN55032 class A, FCC class A, VCCI class A, ICES-003 class A
- Immunity: EN55035, EN61000-3-levels 2 (Harmonics), and 3 (Flicker) – AC models only

Safety

- Standards: UL62368-1, CAN/CSA-C22.2 No.62368-1, EN62368-1, EN60825-1, AS/NZS62368.1
- Certification: UL, cUL

Restrictions on Hazardous Substances (RoHS) Compliance

- EU RoHS compliant
- China RoHS compliant

Standards and Protocols

Cryptographic Algorithms

FIPS Approved Algorithms

Encryption (Block Ciphers):

- ▶ AES (ECB, CBC, CFB and OFB Modes)
- ▶ 3DES (ECB, CBC, CFB and OFB Modes)

Block Cipher Modes:

- ▶ CCM
- ▶ CMAC
- ▶ GCM
- ▶ XTS

Digital Signatures & Asymmetric Key Generation:

- ▶ DSA
- ▶ ECDSA
- ▶ RSA
- Secure Hashing:
- ▶ SHA-1
- ▶ SHA-2 (SHA-224, SHA-256, SHA-384, SHA-512)
- Message Authentication:
- ▶ HMAC (SHA-1, SHA-2(224, 256, 384, 512))
- Random Number Generation:
- ▶ DRBG (Hash, HMAC and Counter)

Non FIPS Approved Algorithms

RNG (AES128/192/256)

DES

MD5

Ethernet

- IEEE 802.2 Logical Link Control (LLC)
- IEEE 802.3 Ethernet
- IEEE 802.3ab 1000BASE-T
- IEEE 802.3ae 10 Gigabit Ethernet
- IEEE 802.3af Power over Ethernet (PoE)
- IEEE 802.3at Power over Ethernet up to 30W (PoE+)
- IEEE 802.3az Energy Efficient Ethernet (EEE)
- IEEE 802.3bt Power over Ethernet up to 90W (PoE++)
- IEEE 802.3bz 2.5GBASE-T and 5GBASE-T ("multi-gigabit")
- IEEE 802.3u 100BASE-X
- IEEE 802.3x Flow control - full-duplex operation
- IEEE 802.3z 1000BASE-X

IPv4 Features

- RFC 768 User Datagram Protocol (UDP)
- RFC 791 Internet Protocol (IP)
- RFC 792 Internet Control Message Protocol (ICMP)
- RFC 793 Transmission Control Protocol (TCP)
- RFC 826 Address Resolution Protocol (ARP)
- RFC 894 Standard for the transmission of IP datagrams over Ethernet networks
- RFC 919 Broadcasting Internet datagrams
- RFC 922 Broadcasting Internet datagrams in the presence of subnets
- RFC 932 Subnetwork addressing scheme
- RFC 950 Internet standard subnetting procedure
- RFC 1042 Standard for the transmission of IP datagrams over IEEE 802 networks
- RFC 1071 Computing the Internet checksum
- RFC 1122 Internet host requirements
- RFC 1191 Path MTU discovery
- RFC 1518 An architecture for IP address allocation with CIDR
- RFC 1519 Classless Inter-Domain Routing (CIDR)
- RFC 1812 Requirements for IPv4 routers
- RFC 1918 IP addressing
- RFC 2581 TCP congestion control

IPv6 Features

- RFC 1981 Path MTU discovery for IPv6
- RFC 2460 IPv6 specification
- RFC 2464 Transmission of IPv6 packets over Ethernet networks
- RFC 2711 IPv6 router alert option
- RFC 3484 Default address selection for IPv6
- RFC 3587 IPv6 global unicast address format
- RFC 3596 DNS extensions to support IPv6
- RFC 4007 IPv6 scoped address architecture

- RFC 4193 Unique local IPv6 unicast addresses
- RFC 4213 Transition mechanisms for IPv6 hosts and routers
- RFC 4291 IPv6 addressing architecture
- RFC 4443 Internet Control Message Protocol (ICMPv6)
- RFC 4861 Neighbor discovery for IPv6
- RFC 4862 IPv6 Stateless Address Auto-Configuration (SLAAC)
- RFC 5014 IPv6 socket API for source address selection
- RFC 5095 Deprecation of type 0 routing headers in IPv6

Management

- AMF Plus edge node³
- AT Enterprise MIB including AMF Plus MIB and SNMP traps
- SNMPv1, v2c and v3
- ANSI/TIA-1057 LLDP-Media Endpoint Detection
- IEEE 802.1ABLink Layer Discovery Protocol (LLDP)
- RFC 1155 Structure and identification of management information for TCP/IP-based Internets
- RFC 1157 Simple Network Management Protocol (SNMP)
- RFC 1212 Concise MIB definitions
- RFC 1213 MIB for network management of TCP/IP-based Internets: MIB-II
- RFC 1215 Convention for defining traps for use with the SNMP
- RFC 1227 SNMP MUX protocol and MIB
- RFC 1239 Standard MIB
- RFC 2578 Structure of Management Information v2 (SMIv2)
- RFC 2579 Textual conventions for SMIv2
- RFC 2580 Conformance statements for SMIv2
- RFC 2674 Definitions of managed objects for bridges with traffic classes, multicast filtering and VLAN extensions
- RFC 2741 Agent extensibility (AgentX) protocol
- RFC 2819 RMON MIB (groups 1,2,3 and 9)
- RFC 2863 Interfaces group MIB
- RFC 3176 sFlow: a method for monitoring traffic in switched and routed networks
- RFC 3411 An architecture for describing SNMP management frameworks
- RFC 3412 Message processing and dispatching for the SNMP
- RFC 3413 SNMP applications
- RFC 3414 User-based Security Model (USM) for SNMPv3
- RFC 3415 View-based Access Control Model (VACM) for SNMP
- RFC 3416 Version 2 of the protocol operations for the SNMP
- RFC 3417 Transport mappings for the SNMP
- RFC 3418 MIB for SNMP
- RFC 3621 Power over Ethernet (PoE) MIB
- RFC 3635 Definitions of managed objects for the Ethernet-like interface types
- RFC 3636 IEEE 802.3 MAU MIB
- RFC 4022 MIB for the Transmission Control Protocol (TCP)
- RFC 4113 MIB for the User Datagram Protocol (UDP)
- RFC 4188 Definitions of managed objects for bridges
- RFC 4292 IP forwarding table MIB
- RFC 4293 MIB for the Internet Protocol (IP)
- RFC 4318 Definitions of managed objects for bridges with RSTP
- RFC 4560 Definitions of managed objects for remote ping, traceroute and lookup operations
- RFC 5424 The Syslog protocol

Multicast Support

- IGMP query solicitation
- IGMP snooping (IGMPv1, v2 and v3)
- IGMP snooping fast-leave
- MLD snooping (MLDv1 and v2)
- RFC 2715 Interoperability rules for multicast routing protocols
- RFC 3306 Unicast-prefix-based IPv6 multicast addresses
- RFC 4541 IGMP and MLD snooping switches

Quality of Service (QoS)

- IEEE 802.1p Priority tagging
- RFC 2211 Specification of the controlled-load network element service
- RFC 2474 DiffServ precedence for eight queues/port
- RFC 2475 DiffServ architecture

- RFC 2597 DiffServ Assured Forwarding (AF)
- RFC 2697 A single-rate three-color marker
- RFC 2698 A two-rate three-color marker
- RFC 3246 DiffServ Expedited Forwarding (EF)

Resiliency Features

- IEEE 802.1AXLink aggregation (static and LACP)
- IEEE 802.1D MAC bridges
- IEEE 802.1s Multiple Spanning Tree Protocol (MSTP)
- IEEE 802.1w Rapid Spanning Tree Protocol (RSTP)
- IEEE 802.3adStatic and dynamic link aggregation

Routing Information Protocol (RIP)

- RFC 1058 Routing Information Protocol (RIP)
- RFC 2082 RIP-2 MD5 authentication
- RFC 2453 RIPv2

Security Features

- SSH remote login
- SSLv2 and SSLv3
- IEEE 802.1X authentication protocols (TLS, TTLS, PEAP and MD5)
- IEEE 802.1X multi-supplicant authentication
- IEEE 802.1X port-based network access control
- RFC 2560 X.509 Online Certificate Status Protocol (OCSP)
- RFC 2868 RADIUS attributes for tunnel protocol support
- RFC 2818 HTTP over TLS ("HTTPS")
- RFC 2865 RADIUS authentication
- RFC 2866 RADIUS accounting
- RFC 2868 RADIUS attributes for tunnel protocol support
- RFC 2986 PKCS #10: certification request syntax specification v1.7
- RFC 3546 Transport Layer Security (TLS) extensions
- RFC 3580 IEEE 802.1x RADIUS usage guidelines
- RFC 3748 PPP Extensible Authentication Protocol (EAP)
- RFC 4251 Secure Shell (SSHv2) protocol architecture
- RFC 4252 Secure Shell (SSHv2) authentication protocol
- RFC 4253 Secure Shell (SSHv2) transport layer protocol
- RFC 4254 Secure Shell (SSHv2) connection protocol
- RFC 5176 RADIUS CoA (Change of Authorization)
- RFC 5246 Transport Layer Security (TLS) v1.2
- RFC 5280 X.509 certificate and Certificate Revocation List (CRL) profile
- RFC 5425 Transport Layer Security (TLS) transport mapping for Syslog
- RFC 5656 Elliptic curve algorithm integration for SSH
- RFC 6125 Domain-based application service identity within PKI using X.509 certificates with TLS
- RFC 6614 Transport Layer Security (TLS) encryption for RADIUS
- RFC 6668 SHA-2 data integrity verification for SSH Services

Services

- RFC 854 Telnet protocol specification
- RFC 855 Telnet option specifications
- RFC 857 Telnet echo option
- RFC 858 Telnet suppress go ahead option
- RFC 1091 Telnet terminal-type option
- RFC 1350 Trivial File Transfer Protocol (TFTP)
- RFC 1985 SMTP service extension
- RFC 2049 MIME
- RFC 2131 DHCPv4 client
- RFC 2616 Hypertext Transfer Protocol - HTTP/1.1
- RFC 2821 Simple Mail Transfer Protocol (SMTP)
- RFC 2822 Internet message format
- RFC 3046 DHCP relay agent information option (DHCP option 82)
- RFC 3396 Encoding long options in DHCPv4
- RFC 3993 Subscriber-ID suboption for DHCP relay agent option
- RFC 4330 Simple Network Time Protocol (SNTP) version 4
- RFC 4954 SMTP service extension for authentication
- RFC 5905 Network Time Protocol (NTP) version 4

VLAN support

- IEEE 802.1Q Virtual LAN (VLAN) bridges
- IEEE 802.1v VLAN classification by protocol and port
- IEEE 802.3acVLAN tagging

³ AMF Plus edge is for products used at the edge of the network, and only support a single AMF Plus link. They cannot use cross links or virtual links.

CentreCOM SE240 Series | Multi-Gigabit Edge Switches

Ordering Information

AT-SE240-10GTXm

8-port 10M/100M/1/2.5/5G L2+ switch with 2 SFP+ ports

AT-SE240-10GHXm

8-port 10M/100M/1/2.5/5G PoE++ L2+ switch with 2 SFP+ ports

AT-SE240-18GTXm

16-port 10M/100M/1/2.5/5G L2+ switch with 2 SFP+ ports

AT-SE240-18GHXm

16-port 10M/100M/1/2.5/5G PoE++ L2+ switch with 2 SFP+ ports

AT-SE240-26GTXm

24-port 10M/100M/1/2.5/5G L2+ switch with 2 SFP+ ports

AT-SE240-26GHXm

24-port 10M/100M/1/2.5/5G PoE++ L2+ switch with 2 SFP+ ports

AT-RKMT-J13

Rack mount kit for SE240-18GTXm/18GHXm

AT-RKMT-J14

Rack mount kit for SE240-10GTXm/10GHXm

AT-RKMT-J15

Rack mount tray for SE240-10GTXm/10GHXm

AT-BRKT-J24

Wall mount bracket

AT-STND-J03

Stand-kit for
SE240-10GTXm/10GHXm/18GTXm/18GHXm

10G SFP+ Modules

AT-SP10SR

10GSR 850 nm short-haul, 300 m with MMF

AT-SP10SR/I

10GSR 850 nm short-haul, 300 m with MMF
industrial temperature

AT-SP10LRa/I

10GLR 1310 nm medium-haul, 10 km with SMF
industrial temperature

AT-SP10ZR80/I

10GER 1550 nm long-haul, 80 km with SMF
industrial temperature

AT-SP10TM

1G/10G, 100m copper, TAA⁴

AT-SP10BD10/I-12

10 GbE Bi-Di (1270 nm Tx, 1330 nm Rx) fiber up to
10 km industrial temperature, TAA⁴

AT-SP10BD10/I-13

10 GbE Bi-Di (1330 nm Tx, 1270 nm Rx) fiber up to
10 km industrial temperature, TAA⁴

AT-SP10BD20-12

10 GbE Bi-Di (1270 nm Tx, 1330 nm Rx) fiber up to
20 km, TAA⁴

AT-SP10BD20-13

10 GbE Bi-Di (1330 nm Tx, 1270 nm Rx) fiber up to
20 km, TAA⁴

AT-SP10BD40/I-12

10 GbE Bi-Di (1270 nm Tx, 1330 nm Rx) fiber up to
40 km industrial temperature, TAA⁴

AT-SP10BD40/I-13

10 GbE Bi-Di (1330 nm Tx, 1270 nm Rx) fiber up to
40 km industrial temperature, TAA⁴

AT-SP10BD80/I-14

10 GbE Bi-Di (1270 nm Tx, 1330 nm Rx) fiber up to
80 km industrial temperature, TAA⁴

AT-SP10BD80/I-15

10 GbE Bi-Di (1330 nm Tx, 1270 nm Rx) fiber up to
80 km industrial temperature, TAA⁴

AT-SP10TW1

1 meter SFP+ direct attach cable

AT-SP10TW3

3 meter SFP+ direct attach cable

1G SFP Modules

AT-SPTXc

100 m, 10/100/1000T SFP, RJ-45

AT-SPSX

1000SX GbE multi-mode 850 nm fiber up to 550 m

AT-SPEX

1000X GbE multi-mode 1310 nm fiber up to 2 km

AT-SPSX/I

1000SX GbE multi-mode 850 nm fiber up to
550 m industrial temperature

AT-SPLX10

1000LX GbE single-mode 1310 nm fiber up
to 10 km

AT-SPLX10a

1000LX SFP, LC, SMF, 1310nm (10km), TAA²

AT-SPLX10/I

1000LX GbE single-mode 1310 nm fiber up
to 10 km, industrial temperature

AT-SPLX40

1000LX GbE single-mode 1310 nm fiber up
to 40 km

AT-SPBD10-13

1000LX (LC) GbE Bi-Di (1310 nm Tx, 1490 nm Rx)
fiber up to 10 km

AT-SPBD10-14

1000LX (LC) GbE Bi-Di (1490 nm Tx, 1310 nm Rx)
fiber up to 10 km

AT-SPBD20-13/I

1000LX (LC) GbE single-mode Bi-Di (1310 nm
Tx, 1490 nm Rx) fiber up to 20 km, industrial
temperature

AT-SPBD20-14/I

1000LX (LC) GbE single-mode Bi-Di (1490 nm
Tx, 1310 nm Rx) fiber up to 20 km, industrial
temperature

AT-SPBD40-13/I

1000LX (LC) GbE single-mode Bi-Di (1310 nm
Tx, 1490 nm Rx) fiber up to 40 km, industrial
temperature

AT-SPBD40-14/I

1000LX (LC) GbE single-mode Bi-Di (1490 nm
Tx, 1310 nm Rx) fiber up to 40 km, industrial
temperature

⁴ Trade Agreement Act compliant