

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 nextgeneration 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 ontical 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 relav

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 standardsbased 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 highpriority 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
- ▶ 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 schedulina
- 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
- ▶ 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
- ► EPSR[™] for resilient ring-based topologies
- Active Fiber Monitoring (AFM)
- ► Link Monitoring
- ► Flexible ACLs
- ▶ NETCONF/RESTCONF with YANG data modelling









CentreCOM SE240 Series | Multi-Gigabit Edge Switches

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

	NO POE LOAD		FULL POE+ LOAD		MAX	POE SOURCING PORTS							
PRODUCT	MAX POWER CONSUMPTION (W)	MAX HEAT DISSIPATION (BTU/H)	NOISE* (DBA)	MAX POWER CONSUMPTION (W)	MAX HEAT DISSIPATION (BTU/H)	NOISE* (DBA)	POE POWER (W)	P0E (7.5W)	P0E (15.4W)	P0E + (30W)	P0E ++ (45W)	P0E ++ (60W)	P0E ++ (90W)
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								
PRODUCI	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

- ▶ DoS attack blocking and virus throttling
- ▶ 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

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Stand	ards and Protocols	RFC 4193	Unique local IPv6 unicast addresses	RFC 2597	DiffServ Assured Forwarding (AF)
		RFC 4213	Transition mechanisms for IPv6 hosts and	RFC 2697	A single-rate three-color marker
	graphic Algorithms		routers	RFC 2698	A two-rate three-color marker
	oved Algorithms (Block Ciphers):	RFC 4291 RFC 4443	IPv6 addressing architecture	RFC 3246	DiffServ Expedited Forwarding (EF)
,,	CB, CBC, CFB and OFB Modes)	RFC 4443	Internet Control Message Protocol (ICMPv6) Neighbor discovery for IPv6	Resilie	ncy Features
•	ECB, CBC, CFB and OFB Modes)	RFC 4862	· ·		AXLink aggregation (static and LACP)
Block Ciphe			(SLAAC)		D MAC bridges
► CCM	i Modo.	RFC 5014	IPv6 socket API for source address selection		s Multiple Spanning Tree Protocol (MSTP) w Rapid Spanning Tree Protocol (RSTP)
► CMAC		RFC 5095	Deprecation of type 0 routing headers in IPv6		dadStatic and dynamic link aggregation
► GCM		Manage	ement		
► XTS		AMF Plus e	•		g Information Protocol (RIP)
	atures & Asymmetric Key Generation:		se MIB including AMF Plus MIB and SNMP traps	RFC 1058 RFC 2082	Routing Information Protocol (RIP) RIP-2 MD5 authentication
► DSA	atales & Asymmetric Ney deficiation.	SNMPv1, v ANSI/TIA-1	057 LLDP-Media Endpoint Detection	RFC 2453	
► ECDSA			ABLink Layer Discovery Protocol (LLDP)		
► RSA	1	RFC 1155	Structure and identification of management		y Features
Secure Has	thing:	RFC 1157	information for TCP/IP-based Internets	SSH remote SSLv2 and	•
► SHA-1	ning.	RFC 1157	Simple Network Management Protocol (SNMP) Concise MIB definitions		X authentication protocols (TLS, TTLS, PEAP
	(SHA-224, SHA-256, SHA-384. SHA-512)	RFC 1213	MIB for network management of TCP/IP-based		and MD5)
	uthentication:		Internets: MIB-II		X multi-supplicant authentication
-	(SHA-1, SHA-2(224, 256, 384, 512)	RFC 1215	Convention for defining traps for use with the		X port-based network access control X.509 Online Certificate Status Protocol (OCSP)
	umber Generation:	RFC 1227	SNMP SNMP MUX protocol and MIB	RFC 2868	
► DRBG ((Hash, HMAC and Counter)	RFC 1239	Standard MIB	RFC 2818	HTTP over TLS ("HTTPS")
		RFC 2578	Structure of Management Information v2	RFC 2865	RADIUS authentication
	Approved Algorithms	RFC 2579	(SMIv2)	RFC 2866 RFC 2868	RADIUS accounting RADIUS attributes for tunnel protocol support
RNG (AES1: DES	28/192/256)	RFC 2579	Textual conventions for SMIv2 Conformance statements for SMIv2	RFC 2986	PKCS #10: certification request syntax
MD5		RFC 2674	Definitions of managed objects for bridges		specification v1.7
			with traffic classes, multicast filtering and	RFC 3546	Transport Layer Security (TLS) extensions
Etherne		DEO 0744	VLAN extensions	RFC 3580 RFC 3748	IEEE 802.1x RADIUS usage guidelines
IEEE 802.2 IEEE 802.3	Logical Link Control (LLC)	RFC 2741 RFC 2819	Agent extensibility (AgentX) protocol RMON MIB (groups 1,2,3 and 9)	RFC 4251	PPP Extensible Authentication Protocol (EAP) Secure Shell (SSHv2) protocol architecture
	ab 1000BASE-T	RFC 2863	Interfaces group MIB	RFC 4252	Secure Shell (SSHv2) authentication protocol
	ae 10 Gigabit Ethernet	RFC 3176	sFlow: a method for monitoring traffic in	RFC 4253	Secure Shell (SSHv2) transport layer protocol
	af Power over Ethernet (PoE)	DEO 0.444	switched and routed networks	RFC 4254	Secure Shell (SSHv2) connection protocol
	at Power over Ethernet up to 30W (PoE+) az Energy Efficient Ethernet (EEE)	RFC 3411	An architecture for describing SNMP management frameworks	RFC 5176 RFC 5246	RADIUS CoA (Change of Authorization) Transport Layer Security (TLS) v1.2
	bt Power over Ethernet up to 90W (PoE++)	RFC 3412	Message processing and dispatching for the	RFC 5280	X.509 certificate and Certificate Revocation
	bz 2.5GBASE-T and 5GBASE-T ("multi-gigabit")		SNMP		List (CRL) profile
	u 100BASE-X	RFC 3413	SNMP applications	RFC 5425	Transport Layer Security (TLS) transport
	x Flow control - full-duplex operation z 1000BASE-X	RFC 3414 RFC 3415	User-based Security Model (USM) for SNMPv3 View-based Access Control Model (VACM) for	RFC 5656	mapping for Syslog Elliptic curve algorithm integration for SSH
IEEE OUZ.S.	Z 1000BASE-A	111 0 0410	SNMP	RFC 6125	Domain-based application service identity
IPv4 Fe	atures	RFC 3416	Version 2 of the protocol operations for the		within PKI using X.509 certificates with TLS
RFC 768	User Datagram Protocol (UDP)		SNMP	RFC 6614	Transport Layer Security (TLS) encryption for
RFC 791 RFC 792	Internet Protocol (IP) Internet Control Message Protocol (ICMP)	RFC 3417 RFC 3418	Transport mappings for the SNMP MIB for SNMP	RFC 6668	RADIUS SHA-2 data integrity verification for SSH
RFC 792	Transmission Control Protocol (TCP)	RFC 3621	Power over Ethernet (PoE) MIB	111 0 0000	Services
RFC 826	Address Resolution Protocol (ARP)	RFC 3635	Definitions of managed objects for the		
RFC 894	Standard for the transmission of IP datagrams		Ethernet-like interface types	Service	
DEC 010	over Ethernet networks	RFC 3636	IEEE 802.3 MAU MIB	RFC 854 RFC 855	Telnet protocol specification Telnet option specifications
RFC 919 RFC 922	Broadcasting Internet datagrams Broadcasting Internet datagrams in the	RFC 4022 RFC 4113	MIB for the Transmission Control Protocol (TCP) MIB for the User Datagram Protocol (UDP)	RFC 857	Telnet option Specifications
0 022	presence of subnets	RFC 4188	Definitions of managed objects for bridges	RFC 858	Telnet suppress go ahead option
RFC 932	Subnetwork addressing scheme	RFC 4292	IP forwarding table MIB	RFC 1091	Telnet terminal-type option
RFC 950	Internet standard subnetting procedure	RFC 4293	MIB for the Internet Protocol (IP)	RFC 1350 RFC 1985	Trivial File Transfer Protocol (TFTP) SMTP service extension
RFC 1042	Standard for the transmission of IP datagrams over IEEE 802 networks	RFC 4318	Definitions of managed objects for bridges with RSTP	RFC 2049	MIME
RFC 1071	Computing the Internet checksum	RFC 4560	Definitions of managed objects for remote ping,	RFC 2131	DHCPv4 client
RFC 1122	Internet host requirements		traceroute and lookup operations	RFC 2616	Hypertext Transfer Protocol - HTTP/1.1
RFC 1191	Path MTU discovery	RFC 5424	The Syslog protocol	RFC 2821 RFC 2822	Simple Mail Transfer Protocol (SMTP) Internet message format
RFC 1518	An architecture for IP address allocation with CIDR	Multica	ist Support	RFC 3046	DHCP relay agent information option
RFC 1519	Classless Inter-Domain Routing (CIDR)		y solicitation	2 00 10	(DHCP option 82)
RFC 1812	Requirements for IPv4 routers		ping (IGMPv1, v2 and v3)	RFC 3396	Encoding long options in DHCPv4
RFC 1918	IP addressing		ping fast-leave	RFC 3993	Subscriber-ID suboption for DHCP relay
RFC 2581	TCP congestion control	MLD snoop RFC 2715	oing (MLDv1 and v2) Interoperability rules for multicast routing	RFC 4330	agent option Simple Network Time Protocol (SNTP) version 4
IPv6 Fe	atures	111 0 27 10	protocols	RFC 4954	SMTP service extension for authentication
RFC 1981	Path MTU discovery for IPv6	RFC 3306	Unicast-prefix-based IPv6 multicast addresses	RFC 5905	Network Time Protocol (NTP) version 4
RFC 2460	IPv6 specification	RFC 4541	IGMP and MLD snooping switches	VLAN s	upport
RFC 2464	Transmission of IPv6 packets over Ethernet networks	Quality	of Service (QoS)		Q Virtual LAN (VLAN) bridges
RFC 2711	IPv6 router alert option		p Priority tagging		v VLAN classification by protocol and port
RFC 3484	Default address selection for IPv6	RFC 2211	Specification of the controlled-load network	IEEE 802.3	BacVLAN tagging
RFC 3587	IPv6 global unicast address format	DEO 0474	element service		dge is for products used at the edge of the network, and
RFC 3596 RFC 4007	DNS extensions to support IPv6 IPv6 scoped address architecture	RFC 2474 RFC 2475	DiffServ precedence for eight queues/port DiffServ architecture	only support virtual links.	a single AMF Plus link. They cannot use cross links or
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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, TAA^4

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, TAA^4

AT-SP10BD10/I-13

10 GbE Bi-Di (1330 nm Tx, 1270 nm Rx) fiber up to 10 km industrial temperature, TAA^4

AT-SP10BD20-12

10 GbE Bi-Di (1270 nm Tx, 1330 nm Rx) fiber up to 20 km, TAA 4

AT-SP10BD20-13

10 GbE Bi-Di (1330 nm Tx, 1270 nm Rx) fiber up to 20 km. TAA^4

AT-SP10BD40/I-12

10 GbE Bi-Di (1270 nm Tx, 1330 nm Rx) fiber up to 40 km industrial temperature, TAA^4

AT-SP10BD40/I-13

10 GbE Bi-Di (1330 nm Tx, 1270 nm Rx) fiber up to 40 km industrial temperature, TAA^4

AT-SP10BD80/I-14

10 GbE Bi-Di (1270 nm Tx, 1330 nm Rx) fiber up to 80 km industrial temperature, TAA^4

AT-SP10BD80/I-15

10 GbE Bi-Di (1330 nm Tx, 1270 nm Rx) fiber up to 80 km industrial temperature, TAA^4

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/

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