

# CentreCOM® SE540L Series

## 10 Gigabit Stackable Edge Switches

Allied Telesis CenterCOM SE540L Series 10 Gigabit Layer 3 stackable switches provide high-speed edge connectivity. All ports support up to 10G speed enabling seamless communication for modern applications, and Multi-Gigabit support ensures flexible deployment.





#### Overview

Allied Telesis CenterCOM SE540L Series switches provide high-speed access with up to 10G connectivity, and the power of Virtual Chassis Stacking (VCStack<sup>TM</sup>) enables a resilient network edge solution that easily supports next generation end devices and applications.

The SE540L-28XTm supports Multi-Gigabit (1/2.5/5/10G) copper ports for flexible deployment, while the SE540L-28XS has 1/10G SFP fiber ports for secure long distance connectivity.

#### **Specifications**

#### Performance

- ▶ Up to 32K MAC addresses
- ▶ Up to 1,000 static routes
- ▶ Up to 64 RIP routes
- ▶ 2GB 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
- ► Cable fault locator (TDR)
- ► Find-me device locator
- ▶ Link Monitoring
- Automatic link flap detection and port shutdown
- ► Optical Digital Diagnostic Monitoring (DDM)
- ▶ Ping polling for IPv4 and IPv6
- ▶ Port mirroring
- ▶ VLAN mirroring (RSPAN)
- ► TraceRoute for IPv4 and IPv6
- ► Uni-Directional Link Detection (UDLD)

#### **IPv4 Features**

- ▶ Black hole routing
- ▶ DHCPv4 client and relay

- ▶ Directed broadcast forwarding
- DNS relav
- ► Equal Cost Multi Path (ECMP) routing
- ► Policy-based routing
- ▶ Static routing and RIP for IPv4
- ▶ UDP broadcast helper (IP helper)

#### IPv6 Features

- ▶ DHCPv6 client and relay
- ► DNSv6 client, DNSv6 relay
- ▶ IPv4 and IPv6 dual stack
- ▶ IPv6 aware storm protection and QoS
- ► IPv6 hardware ACLs
- ► Device management over IPv6 networks with SNMPv6, Telnetv6 and SSHv6
- ► IPv6 QoS support
- NTPv6 client and server
- ► Static unicast routing for IPv6
- ▶ Log to IPv6 hosts with Syslog v6

#### Management

- 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 SE540L 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
- AMF Security (AMF-Sec) enables a self-defending network - managing the SE540L (or other AMF Plus switches) to automatically block the spread of malware by quarantining suspect end 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
- sFlow enables traffic monitoring in switched networks

- USB interface allows software release files, configurations and other files to be stored for backup and distribution to other devices
- ► Web-based Graphical User Interface (GUI)

#### Quality of Service (QoS)

- 8 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

## **Key Features**

- ► AlliedWare Plus fully featured OS
- ► AMF Plus edge node¹
- ► Vista Manager compatible
- ► AMF-Security compatible
- ▶ VCStack 2 units at any speed
- ▶ 1/2.5/5/10G (Multi-Gigabit) connectivity on copper ports
- ► 1/10G (SFP and SFP+) connectivity on fiber ports
- ► EPSR high-speed resilient rings
- ► Link Monitoring
- ► VLAN ACLs
- ► VLAN mirroring (RSPAN)

Active Fiber Monitoring

► NETCONF/RESTCONF with YANG data modelling

<sup>1</sup>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.











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- Queue scheduling options using strict priority
- ▶ 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)
- ► EPSR (Ethernet Protection Switched Rings)
- ► EPSRing SuperLoop Protection (SLP)
- ▶ Flexi-stacking use any port-speed to stack
- ► Link aggregation (LACP) on LAN ports
- ► Long-distance stacking using fiber ports (LD-VCStack)
- ▶ Loop protection: loop detection and thrash limiting
- ▶ PVST+ compatibility mode
- ► Spanning Tree Protocols (STP, RSTP, MSTP)
- ▶ STP root guard
- ➤ Virtual Chassis Stacking (VCStack) of up to 2-units for a resilient access solution
- ▶ VCStack fast failover minimizes network disruption
- ▶ Virtual Router Redundancy Protocol (VRRP)

#### **Security Features**

- ► Access Control Lists (ACLs) based on layer 3 and 4 headers
- ► Auth fail and guest VLANs

- ► RADIUS and TACACS+ Authentication, Authorisation and Accounting (AAA)
- Bootloader can be password protected for device security
- ▶ BPDU protection
- ► DHCP snooping, IP source guard and Dynamic ARP Inspection (DAI)
- ▶ DoS attack blocking and virus throttling
- Dynamic VLAN assignment
- ► MAC-based authentication
- ▶ MAC address filtering and MAC address lock-down
- Network Access and Control (NAC) features manage endpoint security
- ► Port-based learn limits (intrusion detection)
- ► RADIUS group selection per VLAN or port
- ► RADIUS proxy
- ► Secure Copy (SCP)
- ▶ Secure File Transfer Protocol (SFTP) client
- Strong password security and encryption
- ► Tri-authentication: MAC-based, web-based and IEEE 802.1x
- ▶ Web-based authentication

#### **VLAN Support**

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

#### **Environmental Specifications**

- ➤ Operating temperature range: 0°C to 50°C (32°F to 122°F) Derated by 1°C per 305 meters (1,000 ft)
- ➤ Storage temperature range: -25°C to 70°C (-13°F to 158°F)
- Operating relative humidity range:5% to 90% non-condensing
- ➤ Storage relative humidity range: 5% to 95% non-condensing
- Operating altitude: 3,000 meters maximum (9,843 ft)

#### **Electrical approvals and compliances**

- ► EMC: ETSI EN300-386, EN300-132-2, FCC class A, VCCI class A
- ► Immunity: EN55024, EN61000-3-levels 2 (Harmonics), and 3 (Flicker) AC models only

#### Safety

- Standards: UL62368-1, CAN/CSA-C22.2 No. 60950-1-03, EN60950-1, EN60825-1, AS/NZS 60950.1
- ► Certifications: UL, cUL, UL-EU

## Restrictions on Hazardous Substances (RoHS) Compliance

- ▶ EU RoHS compliant
- ► China RoHS compliant

## **Product Specifications**

PRODUCT	100/1000T/2.5/5/10G (RJ-45) COPPER PORTS	1/10G SFP+ PORTS	TOTAL PORTS	SWITCHING FABRIC	FORWARDING RATE
SE540L-28XTm	24	4	28	560Gbps	416.7Mpps
SE540L-28XS*	-	28	28	560Gbps	416.7Mpps

### **Physical Specifications**

PRODUCT		WIDTH X DEPTH X HEIGHT	WEIGHT
	SE540L-28XTm	440 x 290 x 44 mm (17.32 x 11.41 x 1.73 in)	4.0 kg (8.8 lb)
	SE540L-28XS*	440 x 290 x 44 mm (17.32 x 11.41 x 1.73 in)	3.8 kg (8.3 lb)

## **Power and Noise Characteristics**

	MAX POWER CONSUMPTION	MAX HEAT DISSIPATION	NOISE
SE540L-28XTm	160W	540 BTU/h	46 - 63 db
SE540L-28XS*	86W	293 BTU/h	39 - 52 db

Noise: tested to ISO7779; front bystander position

### Latency (microseconds)

PRODUCT	PORT SPEED (µs)				
rnuuuui	1GBPS	2.5GBPS	5GBPS	10GBPS	
SE540L-28XTm	4.48	8.43	5.72	2.73	
SE540L-28XS*	3.59	-	-	1.60	

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 $<sup>^{\</sup>star}$  See your Allied Telesis sales representative for availability

## **CentreCOM SE540L Series** | 10 Gigabit Stackable Edge Switches

Standards and Protocols		IPv6 Features		MLD snooping (MLDv1 and v2)	
Authentication	RFC 1981	Path MTU discovery for IPv6	RFC 1112	Host extensions for IP multicasting (IGMPv1)	
RFC 1321 MD5 Message-Digest algorithm	RFC 2460	IPv6 specification	RFC 2236	Internet Group Management Protocol v2 (IGMPv2)	
RFC 1828 IP authentication using keyed MD5	RFC 2464	Transmission of IPv6 packets over Ethernet networks	RFC 3306	Unicast-prefix-based IPv6 multicast addresses	
	RFC 3484	Default address selection for IPv6	RFC 3376	IGMPv3	
Cryptographic Algorithms	RFC 3587	IPv6 global unicast address format	RFC 4541	IGMP and MLD snooping switches	
FIPS Approved Algorithms	RFC 3596	DNS extensions to support IPv6		, ,	
Encryption (Block Ciphers):	RFC 4007	IPv6 scoped address architecture	_	of Service (QoS)	
► AES (ECB, CBC, CFB and OFB Modes)	RFC 4193	Unique local IPv6 unicast addresses		Priority tagging	
▶ 3DES (ECB, CBC, CFB and OFB Modes)	RFC 4213	Transition mechanisms for IPv6 hosts and	RFC 2211	Specification of the controlled-load network	
Block Cipher Modes:		routers	RFC 2474	element service DiffServ precedence for eight queues/port	
► CCM	RFC 4291	IPv6 addressing architecture	RFC 2474	DiffServ architecture	
► CMAC	RFC 4443 RFC 4861	Internet Control Message Protocol (ICMPv6) Neighbor discovery for IPv6	RFC 2597	DiffServ Assured Forwarding (AF)	
▶ GCM	RFC 4862	IPv6 Stateless Address Auto-Configuration	RFC 2697	A single-rate three-color marker	
	111 0 1002	(SLAAC)	RFC 2698	A two-rate three-color marker	
▶ XTS	RFC 5014	IPv6 socket API for source address selection	RFC 3246	DiffServ Expedited Forwarding (EF)	
Digital Signatures & Asymmetric Key Generation:	RFC 5095	Deprecation of type 0 routing headers in IPv6			
► DSA	RFC 5175	IPv6 Router Advertisement (RA) flags option		ncy Features	
► ECDSA	RFC 6105	IPv6 Router Advertisement (RA) guard		AXLink aggregation (static and LACP)	
► RSA				MAC bridges  Multiple Spanning Tree Protocol (MSTP)	
Secure Hashing:	Manage			Multiple Spanning Tree Protocol (MSTP)  v Rapid Spanning Tree Protocol (RSTP)	
► SHA-1		se MIB including AMF Plus MIB and SNMP traps		adStatic and dynamic link aggregation	
► SHA-2 (SHA-224, SHA-256, SHA-384. SHA-512)		oort SNMPv1, v2c and v3 057 LLDP-Media Endpoint Detection		Virtual Router Redundancy Protocol version 3	
		AB Link Layer Discovery Protocol (LLDP)		(VRRPv3) for IPv4 and IPv6	
Message Authentication:	RFC 1155	Structure and identification of management		,	
► HMAC (SHA-1, SHA-2(224, 256, 384, 512)		information for TCP/IP-based Internets	Routing	Information Protocol (RIP)	
Random Number Generation:	RFC 1157	Simple Network Management Protocol (SNMP)	RFC 1058	Routing Information Protocol (RIP)	
<ul><li>DRBG (Hash, HMAC and Counter)</li></ul>	RFC 1212	Concise MIB definitions	RFC 2082	RIP-2 MD5 authentication	
	RFC 1213	MIB for network management of TCP/IP-based	RFC 2453	RIPv2	
Non FIPS Approved Algorithms		Internets: MIB-II	Security	y Features	
RNG (AES128/192/256)	RFC 1215	Convention for defining traps for use with the	SSH remote		
DES MD5	RFC 1227	SNMP	SSLv2 and	•	
WIDO	RFC 1239	SNMP MUX protocol and MIB Standard MIB		( authentication protocols (TLS, TTLS, PEAP	
Encryption (management traffic only)	RFC 1724	RIPv2 MIB extension		and MD5)	
FIPS 180-1 Secure Hash standard (SHA-1)	RFC 2578	Structure of Management Information v2	IEEE 802.1)	Cmulti-supplicant authentication	
FIPS 186 Digital signature standard (RSA)		(SMIv2)		Oport-based network access control	
FIPS 46-3 Data Encryption Standard (DES and 3DES)	RFC 2579	Textual conventions for SMIv2	RFC 2560	X.509 Online Certificate Status Protocol	
Ethania I	RFC 2580	Conformance statements for SMIv2	DEC 0010	(OCSP)	
Ethernet	RFC 2674	Definitions of managed objects for bridges	RFC 2818 RFC 2865	HTTP over TLS ("HTTPS") RADIUS authentication	
IEEE 802.2 Logical Link Control (LLC) IEEE 802.3 Ethernet		with traffic classes, multicast filtering and	RFC 2866	RADIUS accounting	
IEEE 802.3ab1000BASE-T	DEC 0741	VLAN extensions	RFC 2868	RADIUS attributes for tunnel protocol support	
IEEE 802.3ae10 Gigabit Ethernet	RFC 2741 RFC 2787	Agent extensibility (AgentX) protocol Definitions of managed objects for VRRP	RFC 2986	PKCS #10: certification request syntax	
IEEE 802.3an10GBASE-T	RFC 2819	RMON MIB (groups 1,2,3 and 9)		specification v1.7	
IEEE 802.3azEnergy Efficient Ethernet (EEE)	RFC 2863	Interfaces group MIB	RFC 3546	Transport Layer Security (TLS) extensions	
IEEE 802.3bz2.5GBASE-T and 5GBASE-T ("multi-gigabit")	RFC 3176	sFlow: a method for monitoring traffic in	RFC 3579	RADIUS support for Extensible Authentication	
IEEE 802.3x Flow control - full-duplex operation		switched and routed networks		Protocol (EAP)	
IEEE 802.3z 1000BASE-X	RFC 3411	An architecture for describing SNMP	RFC 3580	IEEE 802.1x RADIUS usage guidelines	
		management frameworks	RFC 3748	PPP Extensible Authentication Protocol (EAP)	
IPv4 Features	RFC 3412	Message processing and dispatching for the	RFC 4251 RFC 4252	Secure Shell (SSHv2) protocol architecture Secure Shell (SSHv2) authentication protocol	
RFC 768 User Datagram Protocol (UDP) RFC 791 Internet Protocol (IP)	DE0 0 110	SNMP	RFC 4252	Secure Shell (SSHv2) transport layer protocol	
RFC 792 Internet Control Message Protocol (ICMP)	RFC 3413	SNMP applications User-based Security Model (USM) for SNMPv3	RFC 4254	Secure Shell (SSHv2) connection protocol	
RFC 793 Transmission Control Protocol (TCP)	RFC 3414 RFC 3415	View-based Access Control Model (VACM) for	RFC 5176	RADIUS Change of Authorization (CoA)	
RFC 826 Address Resolution Protocol (ARP)	111 0 0410	SNMP	RFC 5246	Transport Layer Security (TLS) v1.2	
RFC 894 Standard for the transmission of IP datagrams over Ethernet networks	RFC 3416	Version 2 of the protocol operations for the	RFC 5280	X.509 certificate and Certificate Revocation	
RFC 919 Broadcasting Internet datagrams		SNMP		List (CRL) profile	
RFC 922 Broadcasting Internet datagrams in the	RFC 3417	Transport mappings for the SNMP	RFC 5425	Transport Layer Security (TLS) transport	
presence of subnets	RFC 3418	MIB for SNMP	DEO ECEC	mapping for Syslog	
RFC 932 Subnetwork addressing scheme RFC 950 Internet standard subnetting procedure	RFC 3635	Definitions of managed objects for the	RFC 5656 RFC 6125	Elliptic curve algorithm integration for SSH  Domain-based application service identity	
RFC 951 Bootstrap Protocol (BootP)	DE0 0000	Ethernet-like interface types	NFC 0125	within PKI using X.509 certificates with TLS	
RFC 1027 Proxy ARP	RFC 3636	IEEE 802.3 MAU MIB	RFC 6614	Transport Layer Security (TLS) encryption for	
RFC 1035 DNS client	RFC 4022	MIB for the Transmission Control Protocol (TCP)	0 0011	RADIUS	
RFC 1042 Standard for the transmission of IP datagrams over IEEE 802 networks	RFC 4113	MIB for the User Datagram Protocol (UDP)	RFC 6668	SHA-2 data integrity verification for SSH	
RFC 1071 Computing the Internet checksum	RFC 4188	Definitions of managed objects for bridges		Services	
RFC 1122 Internet host requirements	RFC 4292	IP forwarding table MIB			
RFC 1191 Path MTU discovery	RFC 4293	MIB for the Internet Protocol (IP)	Service		
RFC 1256 ICMP router discovery messages RFC 1518 An architecture for IP address allocation with	RFC 4318	Definitions of managed objects for bridges	RFC 854	Telnet protocol specification	
CIDR		with RSTP	RFC 855 RFC 857	Telnet option specifications Telnet echo option	
RFC 1519 Classless Inter-Domain Routing (CIDR)	RFC 4560	Definitions of managed objects for remote ping,	RFC 858	Telnet suppress go ahead option	
RFC 1542 Clarifications and extensions for BootP	DEO E 40.4	traceroute and lookup operations	RFC 1091	Telnet terminal-type option	
RFC 1591 Domain Name System (DNS) RFC 1812 Requirements for IPv4 routers	RFC 5424 RFC 6527	The Syslog protocol Definitions of managed objects for VRRPv3	RFC 1350	Trivial File Transfer Protocol (TFTP)	
RFC 1912 Requirements for IPV4 routers  RFC 1918 IP addressing	NFU 002/	Deminions of managed objects for VRRPV3	RFC 1985	SMTP service extension	
RFC 2581 TCP congestion control	Multica	st support	RFC 2049	MIME	
RFC 3021 Using 31-Bit Prefixes on IPv4 Point-to-Point		ping (IGMPv1, v2 and v3)	RFC 2131	DHCPv4 client	
Links		ping fast-leave	RFC 2616	Hypertext Transfer Protocol - HTTP/1.1	

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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)

SMTP service extension for authentication

Network Time Protocol (NTP) version 4

#### **VLAN** support

RFC 4954

RFC 5905

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

#### **Ordering Information**

version 4

#### AT-SE540L-28XTm

24-port 100M/1/2.5/5/10G stackable copper switch with 4 x SFP/SFP+ports, and a single fixed PSU

#### AT-SE540L-28XS\*

28-port SFP/SFP+ stackable fiber switch, with a single fixed  $\mbox{PSU}$ 

#### 10G SFP+ Modules

Any 10G SFP+ module or cable can be used for stacking with the front panel 10G ports

#### 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

10GER 1310 nm medium-haul, 10 km with SMF industrial temperature, TAA<sup>2</sup>

#### AT-SP10ER40/I

10GER 1310 nm long-haul, 40 km with SMF industrial temperature

#### AT-SP10ZR80/I

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

#### AT-SP10TM

1G/2.5G/5G/10G, 100m copper,  $TAA^2$  (note that 2.5G/5G speeds are not supported)

#### AT-SP10BD10/I-12

10 GbE Bi-Di (1270 nm Tx, 1330 nm Rx) fiber up to 10 km industrial temperature, TAA<sup>2</sup>

#### AT-SP10BD10/I-13

10 GbE Bi-Di (1330 nm Tx, 1270 nm Rx) fiber up to 10 km industrial temperature,  $TAA^2$ 

#### AT-SP10BD20-12

10 GbE Bi-Di (1270 nm Tx, 1330 nm Rx) fiber up to 20 km,  $TAA^2$ 

#### AT-SP10BD20-13

10 GbE Bi-Di (1330 nm Tx, 1270 nm Rx) fiber up to 20 km. TAA $^2$ 

#### AT-SP10BD40/I-12

10 GbE Bi-Di (1270 nm Tx, 1330 nm Rx) fiber up to 40 km industrial temperature,  $TAA^2$ 

#### AT-SP10BD40/I-13

10 GbE Bi-Di (1330 nm Tx, 1270 nm Rx) fiber up to 40 km industrial temperature,  $TAA^2$ 

#### AT-SP10BD80/I-14

10 GbE Bi-Di (1490 nm Tx, 1550 nm Rx) fiber up to 80 km industrial temperature,  $TAA^2$ 

#### AT-SP10BD80/I-15

10 GbE Bi-Di (1550nm Tx, 1490 nm Rx) fiber up to 80 km industrial temperature,  $TAA^2$ 

#### AT-SP10TW1

1 meter SFP+ direct attach cable

#### AT-SP10TW3

3 meter SFP+ direct attach cable

#### 1000Mbps SFP Modules

#### AT-SPSX

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

#### AT-SPLX10a

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

#### AT-SPLX10/I

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

#### 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

1000BX GbE Bi-Di (1310 nm Tx, 1490 nm Rx) fiber up to 20 km

#### AT-SPBD20-14/I

1000BX GbE Bi-Di (1490 nm Tx, 1310 nm Rx) fiber up to 20 km

## 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

#### AT-SPLX40

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

#### AT-SPZX80

1000ZX GbE single-mode 1550 nm fiber up to 80 km  $\,$ 

#### AT-SPTXc

10/100/1000 TX (RJ45), up to 100 m



<sup>\*</sup> See your Allied Telesis sales representative for availability

<sup>&</sup>lt;sup>2</sup> Trade Agreement Act compliant