SIEMENS

Data sheet

6GK5552-0AA00-2AR2

SCALANCE XR552-12M; managed IE switch; 19" rack; 4x 1000/10000 Mbit/s SFP+; 12x 100/1000 Mbit/s 4-port media modules, electrical, electrical PoE or optical; LED diagnostics; error signaling contact; Select/set pushbutton, PROFINET IO device, network management, integrated redundancy manager; office features (RSTP, VLAN, IGMP, ...); C-plug in scope of delivery Layer 3 prepared; ports in the front



product type designation	SCALANCE XR552-12M
transfer rate	
transfer rate	10 Mbit/s, 100 Mbit/s, 1000 Mbit/s, 10 Gbit/s
interfaces / for communication / maximum configuration for mod	dular devices
number of electrical ports / maximum	48
number of optical ports / maximum	52
interfaces / for communication / integrated	
number of electrical connections	
 for network components or terminal equipment 	RJ45
 for Power-over-Ethernet / for network components or terminal equipment 	12
number of electrical connections	
• for SFP+	4
interfaces / for communication / plug-in	
number of 100 Mbit/s ST(BFOC) ports	
• for multimode	48
• for single mode (LD)	48
number of 1000 Mbit/s SC ports	
• for multimode	48
• for single mode (LD)	48
number of electrical connections	
• for SFP	4
• for SFP+	4
interfaces / other	
number of electrical connections	
 for operator console 	1
 for management purposes 	1
 for signaling contact 	1
 for media module 	12
for power supply	1
type of electrical connection	
 for operator console 	RJ11
 for management purposes 	RJ45
for signaling contact	2-pole terminal block
• for power supply	4-pole terminal block
design of the removable storage	
C-PLUG/KEY-PLUG	Yes
product feature / hot-swappable interface modules	Yes
signal inputs/outputs	
operating voltage / of the signaling contacts	

at DC / rated value	24 V
operational current / of the signaling contacts	27 V
at DC / maximum	0.1 A
supply voltage, current consumption, power loss	
type of voltage supply / redundant power supply unit	No
supplied active power / of PSE / with PoE	,,,
• per port / maximum	30 W
total / maximum	180 W
type of voltage / 1 / of the supply voltage	DC
• supply voltage / 1 / rated value	24 V
• power loss [W] / 1 / rated value	34.08 W
• supply voltage / 1 / rated value	19.2 28.8 V
consumed current / 1 / maximum	12.5 A
type of electrical connection / 1 / for power supply	4-pole terminal block
• product component / 1 / fusing at power supply input	Yes
ambient conditions	
ambient temperature	
during operation	0 60 °C
during operation during storage	-40 +70 °C
during storage during transport	-40 +70 °C
• note	Operation with integral fan, replaceable
relative humidity	, and the second
at 25 °C / without condensation / during operation /	95 %
maximum	
protection class IP	IP20
design, dimensions and weights	
design	19" rack
number of modular height units / relating to 19-inch cabinet	3
width	449 mm
height	130.8 mm
depth	305 mm
net weight	10 kg
fastening method	
 19-inch installation 	Yes
 35 mm top hat DIN rail mounting 	No
wall mounting	No
 S7-300 rail mounting 	No
S7-1500 rail mounting	No
type of cable outlet	Cable outlet at front
product features, product functions, product components / general	
cascading in cases of star topology	any (depending only on signal propagation time)
product functions / management, configuration, engineering	
product function	
• CLI	Yes
 web-based management 	Yes
-	
MIB support	Yes
MIB supportTRAPs via email	Yes
MIB supportTRAPs via emailconfiguration with STEP 7	Yes Yes
 MIB support TRAPs via email configuration with STEP 7 RMON 	Yes Yes Yes
 MIB support TRAPs via email configuration with STEP 7 RMON port mirroring 	Yes Yes Yes Yes
 MIB support TRAPs via email configuration with STEP 7 RMON port mirroring multiport mirroring 	Yes Yes Yes Yes Yes Yes
 MIB support TRAPs via email configuration with STEP 7 RMON port mirroring multiport mirroring Cos 	Yes Yes Yes Yes Yes Yes Yes
 MIB support TRAPs via email configuration with STEP 7 RMON port mirroring multiport mirroring CoS PROFINET IO diagnosis 	Yes Yes Yes Yes Yes Yes Yes Yes Yes
 MIB support TRAPs via email configuration with STEP 7 RMON port mirroring multiport mirroring CoS PROFINET IO diagnosis PROFINET conformity class	Yes
MIB support TRAPs via email configuration with STEP 7 RMON port mirroring multiport mirroring Cos PROFINET IO diagnosis PROFINET conformity class product function / switch-managed	Yes
MIB support TRAPs via email configuration with STEP 7 RMON port mirroring multiport mirroring Cos PROFINET IO diagnosis PROFINET conformity class product function / switch-managed telegram length / for Ethernet / maximum	Yes
MIB support TRAPs via email configuration with STEP 7 RMON port mirroring multiport mirroring CoS PROFINET IO diagnosis PROFINET conformity class product function / switch-managed telegram length / for Ethernet / maximum protocol / is supported	Yes
MIB support TRAPs via email configuration with STEP 7 RMON port mirroring multiport mirroring Cos PROFINET IO diagnosis PROFINET conformity class product function / switch-managed telegram length / for Ethernet / maximum protocol / is supported Telnet	Yes
MIB support TRAPs via email configuration with STEP 7 RMON port mirroring multiport mirroring CoS PROFINET IO diagnosis PROFINET conformity class product function / switch-managed telegram length / for Ethernet / maximum protocol / is supported Telnet HTTP	Yes
MIB support TRAPs via email configuration with STEP 7 RMON port mirroring multiport mirroring Cos PROFINET IO diagnosis PROFINET conformity class product function / switch-managed telegram length / for Ethernet / maximum protocol / is supported Telnet	Yes

FIP	a ETD	Voo
CMAPP Yes	• FTP	Yes
+ O.CP		
• LLDP		
SNMEP v1 SNMEP v2 SNMEP v3 SN		
SMIP 'As Monophrojequeriery Identification & maintenance function SMIP 'As Monophrojequeriery SMIP '		
Identification & mainternance function Identification & mainternance function Identification & mainternance function Identification & mainternance function Yes Identification & Iden		
Identification & maintenance function • (8M0 - Levice-specific information • (8M1 - higher level designation/location designation • (8M1 - higher level designation/location designation • (8M1 - higher level designation/location) • (8M1 - higher level designation/location) • (8M1 - higher level designation/location) • (8M1 - product functions) • (8M2 - product functions) • (9M2 - product function) • (9M3 - protocochased) •		
IAMD - device-specific information Yes		Yes
### SAM - higher level designation/location designation product functions / diagnostics Poet diagnostics		
product functions / diagnostics product function - port diagnostics - statistics Packet Size - statistics packet type - error statistics - Syst.og - Syst.og - Syst.og - Syst.og - Ves - product function - V.L.N port based - V.L.N Packet	•	
product function • port diagnostics • statistics Packet Size • statistics Packet Size • statistics packet type • error statistics • SysLog product functions • VLAN - port based • VLAN - port based • VLAN - port based • VLAN - protococh based • VES • VERP • DICHC - Option 67 • VES • DHCP - Option 67 • VES • Static IP routing IPv6 • VES • Static IP routing IPv6 • VES • Symmetr P routing • VES • OSPENZ • RIPnG for IPv6 • VES • VERRP		Yes
• port diagnostics • statistics packet Size • statistics packet type • error statistics • Systug • error statistics • Systug product functions / VLAN product functions / VLAN produce functions / VLAN produce functions / VLAN produce functions / VLAN - Port based • VLAN - Systum - VLAN - Ves • VLAN - Ves		
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error statistics Syst.og Yes Syst.og product functions / VLAN product function • VLAN - protocol-based Yes • Drotocol-functions / protocol-based Yes • DHCP Option 67 Yes • DHCP Option 82 Yes • DHCP Option 68 Yes • DHCP Option 69 Yes • DHCP Option 69 Yes • DROTOCOL-function Yeotuting • static IP routing • static IP routing Yes • static IP routing IPV6 • Supported Yes • OSPFV2 • RIPV2 • RIPV2 • RIPV3 • VRRP • VRRP Or IPV6 • Yes • VRRP • VRRP for IPV6 • Yes • VRRP • VRRP for IPV6 • Yes • VRRP or IPV6 • Yes • VRRP or IPV6 • Vising Speed redundancy Protocol (HRP) with redundancy manager • high speed redundancy Protocol (HRP) with standby redundancy manager • high speed redundancy Protocol (HRP) with standby redundancy manager • high speed redundancy Protocol (HRP) with standby redundancy • manager • high speed redundancy Protocol (HRP) with standby redundancy • manager • high speed redundancy Protocol (HRP) with standby redundancy • manager • high speed redundancy Protocol (HRP) with redundancy • manager • high speed redundancy Protocol (HRP) with redundancy • manager • high speed redundancy Protocol (HRP) with standby redundancy • manager • high speed redundancy Protocol (HRP) with redundancy • manager • high speed redundancy Protocol (MRP) with redundancy • manager • high speed redundancy Protocol (MRP) with redundancy • manager		
SysLog Product functions / VLAN product function VLAN - port based VLAN - protocol-based VLAN - protocol-based VLAN - protocol-based VEAN - Protocol-based VEAN - Protocol-based VEAN - VLAN - Protocol - Protocol (HRP) VES Product function / Protocol (MRP) VES VES VES VES VES VES VES VES	• • • • • • • • • • • • • • • • • • • •	
product functions / VLAN prot based Yes VLAN - prot based Yes Yes VLAN - prot based Yes		
product function • VLAN - protocol-based • VES • VLAN - protocol-based • VLAN - protocol-based • VES • VLAN - protocol-based • VES • Drotocol / is supported / GVRP product functions • DHCP Option 67 • VES • DHCP Option 68 • DHCP Option 66 • DHCP Option 66 • DHCP Option 66 • DHCP Option 67 • YES • DHCP Option 67 • YES • Stalic IP routing / note product functions / routing • stalic IP routing Protocol-based IP routing in combination with KEY-PLUG XR-500 product function • stalic IP routing Protocol-based Yes • dynamic IP routing Yes • dynamic IP routing Protocol-based Yes • dynamic IP routing Protocol-based Yes • dynamic IP routing Protocol-based Yes • CSPFv2 • CSPFv2 • CSPFv3 • CSPFv3 • VRRP • Yes • VRRP Yes • VRRP or IPv6 • Yes • V		Yes
VLAN - protocol-based VLAN - protocol-based VLAN - Protocol-based VLAN - IP-based VLAN dynamic ves VLAN dynamic ves vulan VLAN - dynamic / maximum z55 number of VLANs - dynamic / maximum z55 protocol / is supported / GVRP ves protocol / is supported / GVRP product functions / DHCP product function - DHCP Option 82 - DHCP Option 82 - Ves - DHCP Option 67 - Ves - DHCP Option 67 ves product function - static IP routing service / routing / note product function - static IP routing / Yes - dynamic IP routing Yes - dynamic IP routing Yes - dynamic IP routing Yes - gynamic IP routing Yes - RIPV2 - RIPN2 - RIPN2 - RIPN2 - RIPN6 - OSPFV2 - RIPN6 - OSPFV2 - VRRP for IPV6 - VRRP - VRRP for IPV6 - VRRP - VRRP or IPV6 - Injin speed redundancy protocol (HRP) with redundancy manager - Injin speed redundancy protocol (HRP) with redundancy manager - Injin speed redundancy protocol (HRP) with standby result function - media redundancy protocol (MRP) with redundancy manager - Injin speed redundancy protocol (MRP) with redundancy manager - Injin speed redundancy protocol (MRP) with redundancy manager - Injin speed redundancy protocol (MRP) with redundancy manager - Injin speed redundancy protocol (MRP) with redundancy manager - Injin speed redundancy protocol (MRP) with redundancy manager - Injin speed redundancy protocol (MRP) with redundancy manager - Injin speed redundancy protocol (MRP) with redundancy manager - Injin speed redundancy protocol (MRP) with redundancy manager - Injin speed redundancy protocol (MRP) with redundancy manager - Injin speed redundancy protocol (MRP) with redundancy manager - Injin speed redundancy protocol (MRP) with redundancy manager - Injin speed redundancy protocol (MRP) with redundancy manager - Injin speed redundancy protocol (MRP) with redun		
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VES number of VLANs / maximum Z55 protocol / is supported / GVRP product functions / DHCP product functions DHCP Option 82 DHCP Option 82 DHCP Option 66 Pes DHCP Option 67 Product functions / routing Service / routing / note product functions static IP routing Yes dynamic IP routing IPv6 dynamic IPv6	 VLAN - protocol-based 	Yes
number of VLANs / maximum 255 number of VLANs - dynamic / maximum 255 protocol / is supported / GVRP product functions / DHCP product function		Yes
number of VLANs - dynamic / maximum product functions / DHCP product function DHCP client DHCP Option 82 DHCP Option 86 DHCP Option 67 Product functions / routing service / routing / note product function **static IP routing IPv6 dynamic IP routing IPv6 dynamic IP routing IPv6 **Yes **Quamic IP routing IPv6 **Quam	·	
protocol / is supported / GVRP product functions / DHCP product function 6		
product functions / DHCP product function DHCP client DHCP Option 82 DHCP Option 66 Yes DHCP Option 67 Yes Product functions / routing service / routing / note product function static IP routing IPv6 static IP routing IPv6 dynamic IP routing IPv6 dynamic IP routing IPv6 RIPV2 RIPNG for IPv6 SRIPNG for IPv6 SRIPNG for IPv6 Ves VRRP VRRP VRRP VRRP VRRP VRRP VRRP VR	number of VLANs - dynamic / maximum	255
product function DHCP Client DHCP Option 82 DHCP Option 66 DHCP Option 67 Yes DHCP Option 67 Yes DHCP Option 67 Yes Product functions / routing service / routing / note static IP routing Note static IP routing Pv6 dynamic IP routing Yes dynamic IP routing Yes dynamic IP routing Yes Protocol / is supported RIPv2 RIPv2 RIPv3 RIPv6 OSPFv2 OSPFv3 for IPv6 Ves Ves Ves Ves Product functions / redundancy product functions / redundancy product functions / redundancy product functions / redundancy protocol (HRP) with redundancy manager Protocol / is supported / Media Redundancy Protocol (MRP) product function media redundancy protocol (MRP) with redundancy manager		Yes
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DHCP Option 67 Product functions / routing service / routing / note product function • static IP routing • static IP routing Yes • static IP routing Pv6 • dynamic IP routing IPv6 • dynamic IP routing Pv6 • RIPv2 • RIPv3 • RIPv4 • RIPv4 • RIPv6 • OSPFv2 • OSPFv2 • VRRP • VRRP • VRRP for IPv6 • VRRP • VRRP for IPv6 Ves product functions / redundancy product functions / redundancy • High Speed Redundancy Protocol (HRP) with redundancy manager • high speed redundancy protocol (HRP) with redundancy monager product function • media redundancy protocol (MRP) with redundancy manager • Macia redundancy protocol (MRP) with redundancy manager • manager • manager • Macia redundancy protocol (MRP) with redundancy manager • Macia redundancy protocol (MRP) with redundancy manager • Macia redundancy protocol (MRP) with redundancy manager	DHCP Option 82	Yes
service / routing / note product function • static IP routing IPv6 • static IP routing IPv6 • dynamic IP routing IPv6 • Yes protocol / is supported • RIPv2 • RIPnG for IPv6 • OSPFv2 • OSPFv2 • OSPFv3 for IPv6 • VRRP • VRRP • VRRP / Yes product functions / redundancy product function • ing redundancy • High Speed Redundancy Protocol (HRP) with redundancy manager • high speed redundancy protocol (HRP) with redundancy media redundancy product function • media redundancy Protocol (MRP) Yes product function • media redundancy protocol (MRP) with redundancy manager • media redundancy protocol (MRP) with redundancy media redundancy protocol (MRP) with redundancy manager	 DHCP Option 66 	Yes
service / routing / note	DHCP Option 67	Yes
product function • static IP routing • static IP routing IPv6 • static IP routing IPv6 • dynamic IP routing IPv6 • dynamic IP routing IPv6 • dynamic IP routing IPv6 protocol / is supported • RIPv2 • RIPnG for IPv6 • Ves • OSPFv2 • OSPFv2 • VRRP • VRRP • VRRP • VRRP • VRRP • VRRP Yes • VRRP Yes product functions / redundancy product functions • ring redundancy Protocol (HRP) with redundancy manager • high speed redundancy protocol (HRP) with standby redundancy protocol / is supported / Media Redundancy Protocol (MRP) product function • media redundancy protocol (MRP) with redundancy manager • high speed redundancy protocol (HRP) with standby redundancy protocol / is supported / Media Redundancy Protocol (MRP) • media redundancy protocol (MRP) with redundancy manager • media redundancy protocol (MRP) with redundancy media redun	product functions / routing	
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static IP routing IPv6 dynamic IP routing dynamic IP routing IPv6 dynamic IP routing IPv6 yes dynamic IP routing IPv6 yes protocol / is supported RIPv2 RIPng for IPv6 Yes OSPFv2 OSPFv2 OSPFv3 for IPv6 VRRP VRRP VRRP Yes VRRP for IPv6 yes VRRP for IPv6 yes product functions / rodundancy product function ing redundancy Protocol (HRP) high speed redundancy protocol (HRP) with redundancy manager high speed redundancy protocol (HRP) with standby redundancy protocol / is supported / Media Redundancy Protocol (MRP) yes product function wedia redundancy protocol (MRP) with redundancy yes product function wedia redundancy protocol (MRP) with redundancy Yes Product function wedia redundancy protocol (MRP) with redundancy Yes Product function wedia redundancy protocol (MRP) with redundancy Yes Product function we media redundancy protocol (MRP) with redundancy wedia redundancy protocol (MRP) with redundancy Yes	product function	
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protocol / is supported • RIPv2 • RIPnG for IPv6 • OSPFv2 • OSPFv2 • OSPFv3 for IPv6 • VRRP • VRRP • VRRP for IPv6 • VRRP • VRRP for IPv6 Product functions / redundancy product function • ring redundancy • high Speed Redundancy protocol (HRP) with redundancy manager • high speed redundancy protocol (HRP) with standby redundancy protocol / is supported / Media Redundancy Protocol (MRP) • media redundancy protocol (MRP) with redundancy manager • media redundancy protocol (MRP) with redundancy manager • media redundancy protocol (MRP) with redundancy manager	dynamic IP routing	Yes
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OSPFv3 for IPv6 VRRP VRRP VRRP for IPv6 Yes Product functions / redundancy product function ing redundancy High Speed Redundancy Protocol (HRP) high speed redundancy protocol (HRP) with redundancy manager high speed redundancy protocol (HRP) with standby redundancy protocol / is supported / Media Redundancy Protocol (MRP) product function media redundancy protocol (MRP) with redundancy manager Yes Product function media redundancy protocol (MRP) with redundancy manager Yes	RIPnG for IPv6	Yes
VRRP VRRP for IPv6 Yes product functions / redundancy product function ing redundancy High Speed Redundancy Protocol (HRP) high speed redundancy protocol (HRP) with redundancy manager high speed redundancy protocol (HRP) with standby redundancy protocol / is supported / Media Redundancy Protocol (MRP) product function media redundancy protocol (MRP) with redundancy manager Yes Yes Yes	OSPFv2	Yes
VRRP for IPv6 product functions / redundancy product function ing redundancy High Speed Redundancy Protocol (HRP) high speed redundancy protocol (HRP) with redundancy manager high speed redundancy protocol (HRP) with standby redundancy protocol / is supported / Media Redundancy Protocol (MRP) product function media redundancy protocol (MRP) with redundancy manager Yes Yes Yes	OSPFv3 for IPv6	Yes
product functions / redundancy product function • ring redundancy • High Speed Redundancy Protocol (HRP) • high speed redundancy protocol (HRP) with redundancy manager • high speed redundancy protocol (HRP) with standby redundancy protocol / is supported / Media Redundancy Protocol (MRP) product function • media redundancy protocol (MRP) with redundancy manager Yes	• VRRP	Yes
product function • ring redundancy • High Speed Redundancy Protocol (HRP) • high speed redundancy protocol (HRP) with redundancy manager • high speed redundancy protocol (HRP) with standby redundancy protocol / is supported / Media Redundancy Protocol (MRP) product function • media redundancy protocol (MRP) with redundancy manager Yes Yes	VRRP for IPv6	Yes
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manager • high speed redundancy protocol (HRP) with standby redundancy protocol / is supported / Media Redundancy Protocol (MRP) product function • media redundancy protocol (MRP) with redundancy manager Yes Yes		Yes
redundancy protocol / is supported / Media Redundancy Protocol (MRP) Product function • media redundancy protocol (MRP) with redundancy manager Yes Yes		
product function ● media redundancy protocol (MRP) with redundancy manager Yes	redundancy	Yes
media redundancy protocol (MRP) with redundancy manager Yes	protocol / is supported / Media Redundancy Protocol (MRP)	Yes
manager	product function	
Media Redundancy Protocol Interconnection (MRP-I) Yes		Yes
	Media Redundancy Protocol Interconnection (MRP-I)	Yes

redundancy procedure STP	Yes
redundancy procedure RSTP	Yes
 redundancy procedure RSTP+ 	Yes
redundancy procedure MSTP	Yes
 Parallel Redundancy Protocol (PRP)/operation in the PRP-network 	Yes
 Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA) 	No
passive listening	Yes
protocol / is supported	
• LACP	Yes
product functions / security	
product function	
ACL - MAC-based	Yes
 ACL - port/MAC-based 	Yes
• IEEE 802.1x (radius)	Yes
 broadcast/multicast/unicast limiter 	Yes
broadcast blocking	Yes
protocol / is supported	
• SSH	Yes
product functions / time	
product function	
SICLOCK support	Yes
protocol / is supported	
• NTP	Yes
• SNTP	Yes
type of time synchronization	IEEE 1588
standards, specifications, approvals	
standard	
• for FM	FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC, T4
 for safety / from CSA and UL 	UL 60950-1, CSA C22.2 No. 60950-1-03
 for emitted interference 	EN 61000-6-4 (Class A)
for interference immunity	EN 61000-6-2
reference code	
 according to IEC 81346-2 	KF
 according to IEC 81346-2:2019 	KFE
standards, specifications, approvals / CE	
certificate of suitability / CE marking	Yes
standards, specifications, approvals / hazardous environments	
standard / for hazardous zone	EN 60079-0: 2009, EN60079-15: 2010, II 3 G Ex nA IIC T4 Gc, KEMA 07 ATEX
• from CSA and UL	0145 X ISA 12.12.01-2012 (Hazardous Location), Class 1 / Division 2 / Group A, B, C,
	D / T4, Class 1 / Zone 2 / Group IIC / T4
certificate of suitability	V
CCC / for hazardous zone according to GB standard	Yes
CCC / for hazardous zone according to GB standard / as marking	Ex nA IIC T4 Gc
standards, specifications, approvals / other	
certificate of suitability	EN 61000-6-2, EN 61000-6-4
• C-Tick	Yes
KC approval	Yes
E1 approval	No
• E1 approval	No
further information / internet links	
internet link	
 to web page: selection aid TIA Selection Tool 	http://www.siemens.com/tia-selection-tool
• to website: Industrial communication	http://www.siemens.com/simatic-net
• to website: Industry Mall	https://mall.industry.siemens.com
• to website: Information and Download Center	http://www.siemens.com/industry/infocenter
• to website: Image database	http://automation.siemens.com/bilddb
• to website: CAx-Download-Manager	http://www.siemens.com/cax

• to website: Industry Online Support	https://support.industry.siemens.com
security information	
security information	Siemens provides products and solutions with industrial security functions that support the secure operation of plants, solutions, machines, equipment and/or networks. They are important components in a holistic industrial security concept. With this in mind, Siemens' products and solutions undergo continuous development. Siemens recommends strongly that you regularly check for product updates. For the secure operation of Siemens products and solutions, it is necessary to take suitable preventive action(e.g. cell protection concept) and integrate each component into a holistic, state-of-the-art industrial security concept. Third-party products that may be in use should also be considered. For more information about industrial security, visit http://www.siemens.com/industrialsecurity. To stay informed about product updates as they occur, sign up for a product-specific newsletter. For more information, visit http://support.automation.siemens.com. (V3.4)
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