



Telecontrol components

Ordering overview – Edition 06/2023
[siemens.com/telecontrol](https://www.siemens.com/telecontrol)

Industrial communication from Siemens

Industrial communication is of central importance for high-performance automation applications. Its diversity is mirrored in the broad range of industrial communication solutions from SIMATIC NET, SCALANCE, and RUGGEDCOM.

Success factor industrial remote access – New requirements demand new approaches

Urbanization, globalization, population growth, and climate change require new solutions from industry that go far beyond classical remote control and remote monitoring. With an expanded range of products, Siemens enables new diverse applications in addition to telecontrol and teleservice. Industrial Remote Communication thus offers the most suitable solution for the most diverse requirements in terms of availability, flexibility, and bandwidth. Whether in manufacturing automation, the process industry, or public infrastructure sectors, such as the water industry, but also in areas such as mobility and energy supply – Industrial Remote Communication provides remote access to widely distributed machines, plants, and applications of all sizes safely and economically.



Plants in water, wastewater, or environmental sectors	Centrally controlled facility management	Control and monitoring of traffic control systems	Consumption recording and cost control in power networks	Remote monitoring of machines and automation equipment	Monitoring of mobile stations	Other application options
For example: - Hydroelectric power plants - Irrigation - Drinking water supply - Sewage systems - Level monitoring	For example: - Lighting - Heater - Consumption optimization	For example: - Traffic lights - Tunnel projects - Lighthouses - Traffic control systems	For example: - District heating networks - Wind power generation - Transformer stations - Biogas plants - Solar	For example: - Air-conditioning systems - Drink dispensers	For example: - Local public transport - Transport - Ships on rivers and in coastal areas - Tracking of buoys	For example: - Greenhouses - Level measurement in silos

Ordering overview for Industrial Remote Communication – Telecontrol components

	Product	Comments	Article no. ¹⁾
	Engineering software		
	TIA Portal		
	SIMATIC Step 7 Basic V18	Floating License, engineering software in the TIA Portal (SW and documentation on DVD, class A, 9 languages: GE, EN, CH included, FR, ES, IT, RU, JP, KR as download); license key on USB stick; runs on Win10, Win11, Windows Server 2016/2019/2022; for configuration of SIMATIC S7-1200 and SIMATIC Basic Panels	6ES7822-0AA08-0YA5
	SIMATIC Step 7 Professional V18	Floating License, engineering software in the TIA Portal (SW and documentation on DVD, class A, 9 languages: GE, EN, CH included, FR, ES, IT, RU, JP, KR as download); license key on USB stick; runs on Win10, Win11, Windows Server 2016/2019/2022; for configuration of SIMATIC S7-1200/1500, SIMATIC S7-300/400/WinAC, and SIMATIC Basic Panels	6ES7822-1AA08-0YA5
	SINAUT engineering software V5.5	SINAUT Engineering Software V5.5 + SP5 For ST7 and DNP3 TIM modules, consisting of SINAUT ST7/DNP3 configuration and diagnostics software for STEP7 V5.7, SINAUT TD7 block library; communication protocols: SINAUT ST7, DNP3	6NH7997-0CA55-0AA0
		OSD (Online Software Delivery)/Software Download	6NH7997-0CE55-0AA0
		SINAUT Engineering Software V5.5 Upgrade	6NH7997-0CA55-0GA0
		OSD (Online Software Delivery)/Software Download	6NH7997-0CE55-0GA0
	Remote Terminal Units (RTUs)		
	Compact Remote Terminal Unit – SIMATIC RTU3000C		
	SIMATIC RTU3010C	Compact RTU for variable power supply using batteries, solar, or 10.8 V DC to 28.8 V DC for connection to external industry routers; connection to control center via TeleControl Basic, DNP3, IEC 60870-5-104, and SINAUT ST7 or MQTT, on-board I/O (8 DI, 4 DO, 4 AI), configuration and diagnostics per web interface	6NH3112-0BA00-0XX0
	SIMATIC RTU3041C	Compact RTU for variable power supply using batteries, solar, or 10.8 V DC to 28.8 V DC with integrated modem for LTE-M/NB-IoT and GPS; connection to control center via TeleControl Basic, DNP3, IEC 60870-5-104, and SINAUT ST7 or MQTT, onboard I/O (8 DI, 8 DO, 4 AI), configuration and diagnostics per web interface; note national approvals!	6NH3112-4BB00-0XX0
	Extension Board HART/RS485	Extension board HART/RS485 for SIMATIC RTU3000C product line, connection of 16 Modbus RTU slaves or 16 HART devices in multidrop mode	6NH3112-3BA00-6XX1
	Battery enclosure for SIMATIC RTU3000C	Battery enclosure for mounting of two D cell batteries; suitable for SIMATIC RTU3000C; batteries must be procured externally and are not included in the scope of delivery! Please observe the notes regarding battery types given in the manual!	6NH3112-3BA00-1XX2
	Battery expansion enclosure for SIMATIC RTU3000C	Battery expansion enclosure for mounting of two D cell batteries; suitable for SIMATIC RTU3000C; batteries must be procured externally and are not included in the scope of delivery! Please observe the notes regarding battery types given in the manual!	6NH3112-3BA00-1XX6
	Aluminum enclosure IP68 for SIMATIC RTU3000C	Aluminum enclosure with degree of protection IP68, temperature range -40 °C to + 70 °C, cover with pin torx screws, 7 cable outlets prepared	6NH3112-3BA00-1XX3
	Stainless steel enclosure IP68 for SIMATIC RTU3000C	Stainless enclosure with degree of protection IP68, temperature range -60 °C to + 135 °C, cover with pin torx screws and padlock device, 7 cable outlets prepared	6NH3112-3BA00-1XX1
	Cable gland for IP68 enclosure	Cable gland; M16; IP68; -40 °C to +100 °C; nickel-plated brass; suitable for enclosure with article numbers 6NH3112-3BA00-1XX1/1XX3, quantity of packaging = 2	6NH3112-3BA00-1XX4
	Blanking plugs for IP68 enclosure	Blanking plugs; M16; IP68; -40 °C to +100 °C; nickel-plated brass; suitable for enclosure with article numbers 6NH3112-3BA00-1XX1/1XX3, quantity of packaging = 2	6NH3112-3BA00-1XX5
	SIMATIC S7 Memory Card	MEMORY CARD for SIMATIC S7-1200/S7-1500 CPU/SINAMICS and SIMATIC RTU3000C, 3.3 V FLASH Different memory capacities from 4 MB up to 32 GB	6ES7954-8L ...

	Application	Product	Comments	Article no. ¹⁾
	Telecontrol for the control center			
	TeleControl Basic protocol			
	For the control center	TeleControl Server Basic V3.1 Runtime software for monitoring and controlling 8 to 5 000 Remote Terminal Units (RTUs); OPC (UA) server for operating modular RTUs based on SIMATIC S7-1200 and ET 200SP or compact RTUs via mobile wireless network or Ethernet/Internet; Connection management for RTUs; Routing for connections between S7 stations; Operating systems: Windows 11 Professional, Enterprise 2021 Windows 10 Professional, Enterprise 2021 Windows 10 Enterprise LTSC 2021 Windows 10 IoT Enterprise LTSC 2021 Windows 10 Enterprise LTSC 2019 Windows 10 IoT Enterprise LTSC 2019 Windows Server 2016 Standard, Data Center Windows Server 2019 Standard, Data Center	Single licenses for TeleControl Server Basic V3.1	
			for 8 RTUs	6NH9910-0AA31-0AA0
			for 32 RTUs	6NH9910-0AA31-0AF0
			for 64 RTUs	6NH9910-0AA31-0AB0
			for 256 RTUs	6NH9910-0AA31-0AC0
			for 1 000 RTUs	6NH9910-0AA31-0AD0
			for 5 000 RTUs	6NH9910-0AA31-0AE0
	For the control center	SINAUT ST7 ScadaConnect V1.0 Software for connecting SINAUT ST7 stations (RTUs) to HMI/SCADA applications via OPC UA; single license for 1 installation of the engineering or runtime software, Online Software Delivery (OSD) Operating systems: Windows 10 Professional, Enterprise (22H2) Windows 10 Enterprise LTSC 2021 Windows 11 Professional, Enterprise (22H2) Windows Server 2019 Standard, Data Center Windows Server 2022 Standard, Data Center SINAUT ST7cc V3.1 + SP5 Software for connecting SINAUT ST7 stations (RTUs) to WinCC; single license for 1 installation of the runtime software; configuration software and electronic manual, 2 languages (German, English); Operating systems: Windows 10 Professional/Enterprise Windows 10 Enterprise LTSC 2019 Windows 11 Professional/Enterprise Windows Server 2019 Standard/Data center Windows Server 2022 Standard/Data center SINAUT ST7sc V2.1+ SP3 Software for connecting SINAUT ST7 stations (RTUs) to a control center via OPC; single license for 1 installation of the runtime software; configuration software and electronic manual, 2 languages (German, English); Operating systems: Windows 10 Professional/Enterprise Windows 10 Enterprise LTSC 2019 Windows 11 Professional/Enterprise Windows Server 2019 Standard/Data center Windows Server 2022 Standard/Data center WinCC TeleControl WinCC add-on for connection of RTUs via telecontrol protocols PCS 7 TeleControl Software packages for PCS 7 for connecting RTUs via telecontrol protocols WinCC OA Process control system for connecting RTUs via telecontrol protocol	ST7 ScadaConnect V1.0: basic license	6NH7997-5DA10-0AA0
			ST7 ScadaConnect 10: volume license for 10 RTUs	6NH7997-5DA10-0AA1
			ST7 ScadaConnect 25: volume license for 25 RTUs	6NH7997-5DA10-0AA2
			ST7 ScadaConnect 100: volume license for 100 RTUs	6NH7997-5DA10-0AA3
			ST7 ScadaConnect 250: volume license for 250 RTUs	6NH7997-5DA10-0AA4
			ST7 ScadaConnect 250+: volume license for more than 250 RTUs	6NH7997-5DA10-0AA5
			ST7cc S, for max. 6 RTUs	6NH7997-7CA31-0AA1
			ST7cc M, for max. 12 RTUs	6NH7997-7CA31-0AA2
			ST7cc L, for > 12 RTUs	6NH7997-7CA31-0AA3
			ST7cc Red, redundancy license for ST7cc; 2 single licenses ST7cc S, M, or L are additionally required	6NH7997-8CA31-0AA0
			For detailed information, ordering information for upgrading the license size (Powerpacks), and technical specifications please refer to the Industry Mall at: www.siemens.com/mall-sinaut-st7cc	
			ST7sc S, for max. 6 RTUs	6NH7997-5CA21-0AA1
			ST7sc M, for max. 12 RTUs	6NH7997-5CA21-0AA2
			ST7sc L, for > 12 RTUs	6NH7997-5CA21-0AA3
			For detailed information, ordering information for upgrading the license size (Powerpacks) and technical specifications please refer to the Industry Mall at: www.siemens.com/mall-sinaut-st7sc	
			For detailed information, ordering information, and technical specifications for the individual SIMATIC WinCC TeleControl products, refer to the ST 80/ST PC catalog and the Internet at: www.siemens.com/wincc	
			For detailed information, ordering information, and technical specifications for the individual SIMATIC PCS 7 TeleControl products, refer to the ST PCS 7 catalog and the Internet at: www.siemens.com/simatic-pcs7/telecontrol	
			For detailed information, ordering information, and technical specifications for the individual WinCC OA products, refer to the ST 80/ST PC catalog and the Internet at: www.siemens.com/wincc-open-architecture	

¹⁾ Current ordering data can be found on the Internet at: www.siemens.com/industrymall

Conditions of sale and delivery can be found at: https://mall.industry.siemens.com/legal/ww/en/terms_of_trade_en.pdf

CP versions	CP 1243-7 LTE ²⁾	CP 1243-1	CP 1243-8 IRC	CP 1542SP-1 IRC ³⁾	TIM 1531 IRC
Interfaces	1 × radio (SMA socket) LTE mobile wireless network (4G)	Industrial Ethernet, 1 × RJ45	Industrial Ethernet, 1 × RJ45 1 × 18-pin socket left for connection of TS modules	Industrial Ethernet, via Bus-Adapter (BA), 2 ports (RJ45 or FO) depending on the BA type	3 × Industrial Ethernet, RJ45 each 1 × RS-232/RS-485 9-pin D-sub connector
Telecontrol protocols	TeleControl Basic, DNP3, IEC 60870-5-104	TeleControl Basic, DNP3, IEC 60870-5-104	SINAUT ST7, DNP3, IEC 60870-5-104	TeleControl Basic, SINAUT ST7, DNP3, IEC 60870-5-104	SINAUT ST7, DNP3, IEC 60870-5-101/104
Substation (RTU type)	S7-1200	S7-1200	S7-1200	ET 200SP	S7-1500, S7-300/400, ET 200SP CPU
Node station	No	No	No	No	Yes
Central station	No	No	No	No	Yes
Data buffer	Up to 64 000 events (TeleControl Basic, DNP3, IEC)	Up to 64 000 events (TeleControl Basic, DNP3, IEC)	Up to 64 000 events (DNP3, IEC), up to 16 000 telegrams (SINAUT ST7)	Up to 64 000 events (TeleControl Basic), up to 100 000 events (DNP3, IEC), up to 32 000 telegrams (SINAUT ST7)	Up to 100 000 telegrams (SINAUT ST7), up to 250 000 events (DNP3, IEC)
Route redundancy	No	No	No	No	Yes (2 × IP-based or 1 × IP-based and 1 × serial)
SINEMA Remote Connect (with auto configuration)	Yes	Yes	Yes	Yes	No

²⁾ Antenna not included in the scope of delivery

³⁾ BusAdapter not included in the scope of delivery

You can find additional information in the Internet www.siemens.com/industry or contact your local Siemens representative. PromElektrohnika, sales@prom-elec.com, Internet www.siemens.com/industry-remote-communication

Ordering overview for Industrial Remote Communication – Telecontrol components

	Application	Product	Communication protocol	Comments	Article no. ¹⁾
	Remote Terminal Units (RTUs)				
	RTUs based on the SIMATIC S7-1200 Basic Controller				
  		Communications processor CP 1243-7 LTE for connecting SIMATIC S7-1200 to the mobile wireless networks (GSM (2G), UMTS (3G), and LTE (4G)); note national approvals, connection to SINEMA Remote Connect with auto configuration	TeleControl Basic, DNP3, IEC 60870-5-104	Operation with fixed IP addresses and dynamic IP addresses with standard mobile phone contract (EU version)	6GK7243-7KX30-0XE0
				(US version)	6GK7243-7SX30-0XE0
		Communications processor CP 1243-1 for connecting SIMATIC S7-1200 as additional Ethernet interface and for connection to control centers via telecontrol protocols (DNP3, IEC 60870-5-104, TeleControl Basic); security: firewall, VPN, connection to SINEMA Remote Connect with auto configuration			6GK7243-1BX30-0XE0
		Communications processor CP 1243-8 IRC for operating a SIMATIC S7-1200 in the TeleControl Professional for SINAUT ST7, DNP3, IEC 60870-5-104; station type: RTU; WAN connections: 1) Ethernet, 2) additionally expandable with TS module RS-232; operation with TIM modules possible, connection to SINEMA Remote Connect with auto configuration	SINAUT ST7, DNP3, IEC 60870-5-104	Connection to remote networks via external industrial router, e.g., SCALANCE M (see Remote Networks below)	6GK7243-8RX30-0XE0

RTUs based on the SIMATIC ET 200SP Distributed Controller and based on the Advanced Controller SIMATIC S7-1500, S7-1500 R/H, S7-300, and S7-400					
	For remote stations (ET 200SP-RTUs)	Communications Processor CP 1542SP-1 IRC for connection of a SIMATIC ET 200SP Distributed Controller as a Remote Terminal Unit (RTU) to a control center system with the DNP3, IEC 60870-5-104, SINAUT ST7, or TeleControl Basic protocols; connection to SINEMA Remote Connect with auto configuration	SINAUT ST7, DNP3, IEC 60870-5-104, TeleControl Basic	Connection to remote networks via external industrial routers, e.g., SCALANCE M (see under Remote Networks)	6GK7542-6VX00-0XE0
	For remote stations (RTUs based on S7-300, S7-400, S7-1500, and ET 200SP) and as node station	TIM 1531 IRC communications module for SIMATIC S7-1500 with three RJ45 interfaces for communication via IP-based networks (WAN/LAN) and an RS-232/RS-485 interface for communication via conventional WANs	SINAUT ST7, DNP3, IEC 60870-5-101/104	Can be used as RTU, node station, and central or path redundancy	6GK7543-1MX00-0XE0
	For remote stations (S7-300-RTUs)	TIM 3V-IE communications module; interfaces: 1 × RS-232, 1 × RJ45, for connection to a conventional WAN or an IP-based network (WAN or LAN)	SINAUT ST7	Can be used as RTU	6NH7800-3BA00
		TIM 3V-IE Advanced communications module; interfaces: 1 × RS-232, 1 × RJ45, for connection to a conventional WAN or an IP-based network (WAN or LAN)			6NH7800-3CA00
		TIM 3V-IE DNP3 communications module; interfaces: 1 × RS-232, 1 × RJ45, for connection to a conventional WAN or an IP-based network (WAN or LAN)	DNP3		6NH7803-3BA00-0AA0
 	For remote stations (S7-300- or S7-400-RTUs) and as node station	TIM 4R-IE communications module; interfaces: 2 × combined RS-232/RS-485, 2 × RJ45, for connection to a conventional WAN or an IP-based network (WAN or LAN)	SINAUT ST7	Can be used as RTU, node station, and central or path redundancy	6NH7800-4BA00
		TIM 4R-IE DNP3 communications module; interfaces: 2 × combined RS-232/RS-485, 2 × RJ45, for connection to a conventional WAN or an IP-based network (WAN or LAN)	DNP3		6NH7803-4BA00-0AA0

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	Application	Product	Network type 1	Network type 2	Interfaces	Comments	Article no. ¹⁾
	Remote networks – components for remote communication over public or private, heterogeneous networks						
	Management platform for secure connections and simple remote access	SINEMA Remote Connect Virtual appliance				Basic Software Package for 4 VPN connections; SINEMA Remote Connect Client, license key	6GK1720-1AH01-0BV0
		SINEMA Remote Connect upgrade 64				Upgrade of 64 VPN connections	6GK1722-1JH01-0BV0
		SINEMA Remote Connect upgrade 256				Upgrade of 256 VPN connections	6GK1722-1MH01-0BV0
		SINEMA Remote Connect upgrade 1 024				Upgrade of 1 024 VPN connections	6GK1722-1QH01-0BV0
		SINEMA Remote Connect client V3 for 1 Installation Software				OpenVPN client for connecting to SINEMA Remote Connect, license key	6GK1721-1XG03-0AA0
		SINEMA Remote Connect client V3 OSD for 1 Installation Software				OpenVPN client for connecting to SINEMA Remote Connect, license key, OSD (Online Software Delivery)/ software download	6GK1721-1XG03-0AK0
		SINEMA Remote Connect Edge CLIENT OSD license for 1 Installation Software				OpenVPN client for connecting edge devices with SINEMA Remote Connect, license key, OSD (Online Software Delivery)/ software download	6GK1721-4XG01-0BK0
		SINEMA Remote Connect UMC license				License to enable the connection of the UMC server for central user management	6GK1724-2VH03-0BV0
		SINEMA Remote Connect API license				License to enable the API interface	6GK1724-3VH03-0BV0
		KEY-PLUG SINEMA RC				KEY-PLUG for activating the connection of SCALANCE M800/ S615 to SINEMA Remote Connect via auto configuration	6GK5908-0PB00
SCALANCE CLP SINEMA RC				Removable data storage for activating the connection of SCALANCE MUM85X to SINEMA Remote Connect with auto configuration	6GK5908-0UA00-0AA0		
     	Modems and Routers	SCALANCE M826-2 SHDSL router		2-wire (SHDSL)	4 × RJ45 2 × terminal block (2-pin)	SHDSL; connection to SINEMA Remote Connect with auto configuration	6GK5826-2AB00-2AB2
		SCALANCE M876-4 (worldwide use)		Mobile wireless GSM (2G), UMTS (3G), LTE (4G)	4 × RJ45 2 × SMA antenna connection	IP router for transparent data transmission between Industrial Ethernet and 4G mobile network (VPN with IPsec/OpenVPN); connection to SINEMA Remote Connect with auto configuration	6GK5876-4AA10-2BA2
		SCALANCE MUM853-1 5G router (EU)	Industrial Ethernet	Mobile wireless UMTS (3G), LTE (4G), public and private 5G	4 × RJ45 4 × SMA antenna connection	IP router for transparent data transmission between Industrial Ethernet and public 5G mobile networks (VPN with IPsec/ OpenVPN) or the connection to private 5G networks; IP30, IPv6; connection to SINEMA Remote Connect with auto configuration	6GK5853-2EA00-2DA1
		SCALANCE MUM856-1 5G router (EU)			1 × M12 X-coded with PoE 4 × N-Connect antenna connection (mobile wireless, private 5G)	IP router for transparent data transmission between Industrial Ethernet and public 5G mobile networks (VPN with IPsec/ OpenVPN) or the connection to private 5G networks; IP65; IPv6; connection to SINEMA Remote Connect with auto configuration	6GK5856-2EA00-3DA1
		RUGGEDCOM RM 1224-NAM 4G Router			4 × RJ45 2 × SMA antenna connection	IP router for transparent data transmission between Industrial Ethernet and 4G mobile network (VPN with IPsec/OpenVPN); connection to SINEMA Remote Connect with auto configuration	6GK6108-4AM00-2DA2
		RUGGEDCOM RX1400	Mobile wireless GSM (2G), UMTS (3G), LTE (4G)	4 × RJ45 5 × SMA antenna port (mobile wireless, WLAN, and GPS)	Industrial hardened compact edge router, integrated Ethernet switch with Cellular, GPS, Wireless LAN, Serial Device Server interfaces and Virtual Processing Engine for third party applications	6GK6014-0AM2.-.-....	
			Accessories ²⁾	Mobile wireless antenna ANT794-4MR, flat antenna, 5 m connecting cable connected permanently to the antenna			
Mobile wireless antenna ANT896-4MA, direct installation with SMA connector				For use in 2G, 3G, and 4G networks	6GK5896-4MA00-0AA3		
Mobile wireless antenna ANT896-4ME, compact design IP66, without connecting cable					6GK5896-4ME00-0AA0		
GPS antenna ANT895-6ML, 0.3 m connecting cable with N-Connect female connected permanently to the antenna				For GPS reception	6GK5895-6ML00-0AA0		
Mobile wireless antenna ANT897-4MA, direct installation with SMA male connector					6GK5897-4MA00-0AA3		
Mobile wireless antenna ANT897-4MC, direct installation with N-Connect male connector				For use in public 5G, 4G, 3G, 2G networks and private 5G networks	6GK5897-4MC00-0AA0		
Mobile wireless antenna ANT897-4ME, compact design, IP65, N-Connect female connector					6GK5897-4ME00-0AA0		
Mobile wireless antenna ANT897-1NY, compact 2 port MIMO antenna with 2 x 3 m connecting cable and SMA plug					6GK5897-1NY00-0AA0		
Lightning protector LP798-1N					2 N-Connect female connectors, 0 ... 6 GHz, IP 68	6GK5798-2LP00-2AA6	
Panel feedthrough N-Connect/SMA female/female				N-Connect female/SMA female, 0 ... 6 GHz, IP67	6GK5798-0PT00-2AA0		
Panel feedthrough N-Connect female/female				2 N-Connect female connectors, 0 ... 11 GHz, IP 68	6GK5798-2PP00-2AA6		
Elbow adapter				SMA/SMA male/female	6GK5898-1CV00-4AA0		
				Length 0.3 m	6XV1875-5LE30		
Antenna cable N-Connect/SMA male/male flexible connecting cable pre-assembled				Length 1 m	6XV1875-5LH10		
				Length 2 m	6XV1875-5LH20		
				Length 5 m	6XV1875-5LH50		
				Length 1 m	6XV1875-5AH10		
Antenna cable N-Connect male/male flexible connection cable pre-assembled				Length 2 m	6XV1875-5AH20		
				Length 5 m	6XV1875-5AH50		
				Length 10 m	6XV1875-5AN10		

¹⁾ Current ordering data can be found on the Internet at: www.siemens.com/industrymall
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2) Further conditions, restrictions and details can be found on the Internet at: https://mall.industry.siemens.com/legal/en/terms_of_trade_en.pdf

Security information

Security information

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Published by
Siemens AG

Digital Industries
Process Automation
Östliche Rheinbrückenstr. 50
76187 Karlsruhe, Germany

PDF (6ZB5530-1BP02-0BB2)
BR 0623 0 PoD 14 En
Produced in Germany
© Siemens 2022

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