



# Type Approval Certificate

This is to certify that the undernoted products have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

This certificate supersedes certificate number 16/20067 (E1) issued on 10.08.2017 which is hereby cancelled.

This certificate is issued to:

**PRODUCER** Siemens AG  
Manufacturing Karlsruhe  
Östliche Rheinbrückenstr. 50  
76187 Karlsruhe  
Germany

**DESCRIPTION** Industrial communication

**TYPE** SIMATIC NET  
Communication Module (CM), Communication Processor (CP), Scalance S, Scalance X, Scalance W (IWLAN), Scalance M, Antenna

IE/PB Link PN IO  
IE/PB Link PN IO 6GK1411-5AB00 (EMC1\*) (1), (7), (15), (27)  
IE/PB Link PN IO 6GK1411-5AB10 (EMC1\*) (2), (8), (15), (27)

BUSTERMINAL  
BUSTERMINAL 12M 6GK1500-0AA10 (EMC2), (2), (8), (16), (27)  
OPTICAL BUS 6GK1500-3AA10 (EMC2), (2), (8), (13), (16), (28)  
TERMINAL 2.0

Optical Link Modules  
PROFIBUS OLM/P11 V4.0 6GK1503-2CA00 (EMC2), (2), (3), (8), (9), (13), (17), (27)  
PROFIBUS OLM/P11 V4.1 6GK1503-2CA01 (EMC2), (3), (9), (13), (17), (27), (28)

**Certificate No.** 16/20067 (E2)

**Issue Date** 02 April 2019

**Expiry Date** 28 June 2021

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Thorsten Wolff  
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Lloyd's Register Deutschland GmbH  
LR031.1.2016.06



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<b>TYPE (continues)</b>	PROFIBUS OLM/G11 V4.0	6GK1503-2CB00 (EMC2), (2), (3), (8), (9), (13), (17), (27), (28)
	PROFIBUS OLM/G11-1300 V4.0	6GK1503-2CC00 (EMC2), (2), (8), (13), (17), (27), (28)
	PROFIBUS OLM/P12 V4.0	6GK1503-3CA00 (EMC2), (2), (3), (8), (9), (13), (17), (27)
	PROFIBUS OLM/P12 V4.1	6GK1503-3CA01 (EMC2), (2), (3), (8), (9), (13), (17), (27), (28)
	PROFIBUS OLM/G12 V4.0	6GK1503-3CB00 (EMC2), (2), (3), (8), (9), (13), (17), (27), (28)
	PROFIBUS OLM/G12-1300 V4.0	6GK1503-3CC00 (EMC2), (2), (8), (17), (27), (28)
	PROFIBUS OLM/G12-EEC V4.0	6GK1503-3CD00 (EMC2), (2), (3), (8), (9), (13), (17), (27), (28)
	PROFIBUS OLM/P22 V4.1	6GK1503-4CA01 (EMC2), (3), (9), (13), (17), (27), (28)
	FASTCONNECT FASTCONNECT RJ45 MODULAR OUTLET	6GK1901-1BE00-0AA3 (EMC1*), (28)
	SCALANCE X SCALANCE X005 SCALANCE X005TS SCALANCE X005	6GK5005-0BA00-1AA3 (EMC2), (28) 6GK5005-0BA00-1CA3 (EMC2), (28) 6GK5 005-0BA10-1AA3 (EMC1*), (2), (8), (13), (27), (28), (31)
	SCALANCE X005EEC	6GK5 005-0BA10-1CA3 (EMC1*), (2), (8), (13), (27), (28), (31)
	SCALANCE X101-1 SCALANCE X101-1LD SCALANCE X104-2 SCALANCE X106-1 SCALANCE XC106-2ST	6GK5101-1BB00-2AA3 (EMC2), (2), (8), (13), (18), (28) 6GK5101-1BC00-2AA3 (EMC2), (2), (8), (13), (18), (28) 6GK5104-2BB00-2AA3 (EMC1*), (2), (8), (13), (18), (28) 6GK5106-1BB00-2AA3 (EMC1*), (2), (8), (13), (18), (28) 6GK5106-2BB00-2AC2 (EMC1), (2), (8), (13), (27), (28), (30)
	SCALANCE XC106-2SC	6GK5106-2BD00-2AC2 (EMC1), (2), (8), (13), (27), (28), (30)
	SCALANCE X108 SCALANCE X108PoE	6GK5108-0BA00-2AA3 (EMC1*), (2), (8), (13), (19), (28) 6GK5108-0PA00-2AA3 (EMC1*), (2), (8), (13), (20), (28)

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<b>TYPE (continues)</b>	SCALANCE XC108	6GK5108-0BA00-2AC2 (EMC1), (2), (8), (13), (27), (28), (30)
	SCALANCE X112-2	6GK5112-2BB00-2AA3 (EMC2), (2), (8), (13), (18), (28)
	SCALANCE X116	6GK5116-0BA00-2AA3 (EMC2), (2), (8), (13), (18), (28)
	SCALANCE XC116	6GK5116-0BA00-2AC2 (EMC1), (2), (8), (13), (27), (28), (30)
	SCALANCE X124	6GK5124-0BA00-2AA3 (EMC2), (2), (8), (13), (18), (28)
	SCALANCE XC124	6GK5124-0BA00-2AC2 (EMC1), (2), (8), (13), (27), (28), (30)
	SCALANCE X202-2IRT	6GK5202-2BB00-2BA3 (EMC1*), (2), (3), (8), (9), (13), (18), (28)
	SCALANCE XF204	6GK5204-0BA00-2AF2 (EMC1*), (2), (8), (13), (28)
	SCALANCE X204IRT	6GK5204-0BA00-2BA3 (EMC1*), (2), (8), (13), (18), (28)
	SCALANCE XF204IRT	6GK5204-0BA00-2BF2 (EMC1*), (2), (8), (13), (18), (28)
	SCALANCE X204RNA	6GK5204-0BS00-2NA3 (EMC2), (18), (27)
	EEC	
	SCALANCE X204RNA	6GK5204-0BS00-3LA3 (EMC2), (18), (27)
	EEC	
	SCALANCE X204RNA	6GK5204-0BS00-3PA3 (EMC2), (18)
	EEC	
	SCALANCE X204 IRT	6GK5204-0JA00-2BA6 (EMC1*), (2), (8), (13), (18), (28)
	PRO	
	SCALANCE X204-2FM	6GK5204-2BB11-2AA3 (EMC2), (3), (9), (13), (21), (28)
	SCALANCE XF204-2	6GK5204-2BC00-2AF2 (EMC1*), (2), (3), (8), (9), (13), (18), (28)
	SCALANCE X204-2	6GK5204-2BB10-2AA3 (EMC2), (3), (9), (13), (21), (28)
	SCALANCE X208	6GK5208-0BA10-2AA3 (EMC2), (2), (8), (13), (21), (28)
	SCALANCE X204-2LD TS	6GK5204-2BC10-2CA2 (EMC2), (2), (8), (13), (18), (28)
	SCALANCE XC206-2 (BFOC)	6GK5206-2BB00-2AC2 (EMC1), (2), (3), (8), (9), (13), (28), (30)
	SCALANCE XC206-2 (SC)	6GK5206-2BD00-2AC2 (EMC1), (2), (3), (8), (9), (13), (28), (30)

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**TYPE (continues)**

SCALANCE XC206-2SFP	6GK5206-2BS00-2AC2 (EMC1), (2), (8), (13), (28), (30)
SCALANCE XF206-1	6GK5206-1BC00-2AF2 (EMC1*), (2), (3), (8), (9), (13), (28)
SCALANCE XC208	6GK5208-0BA00-2AC2 (EMC1), (2), (8), (13), (28), (30)
SCALANCE XF204-2BA IRT +	6GK5204-2AA00-2BD2 (EMC1)
SCALANCE XF204-2BA	6GK5204-2AA00-2GF2 (EMC1)
SCALANCE XF204-2BA DNA	6GK5204-2AA00-2YF2 (EMC1)
SCALANCE XF208	6GK5208-0BA00-2AF2 (EMC1*), (2), (8), (13), (28)
SCALANCE XP208	6GK5208-0HA00-2AS6 (EMC1*), (2), (8), (13), (28)
SCALANCE XP208 EEC	6GK5208-0HA00-2ES6 (EMC1*), (2), (8), (13), (28)
SCALANCE XP208 EIP	6GK5208-0HA00-2TS6 (EMC1*), (2), (8), (13), (28)
SCALANCE X212-2	6GK5212-2BB00-2AA3 (EMC2), (2), (3), (8), (9), (13), (18), (28)
SCALANCE X212-2LD	6GK5212-2BC00-2AA3 (EMC2), (2), (8), (13), (18), (28)
SCALANCE X216	6GK5216-0BA00-2AA3 (EMC2), (2), (8), (13), (18), (28)
SCALANCE XC216	6GK5216-0BA00-2AC2 (EMC2), (2), (8), (13), (28), (30)
SCALANCE XP216	6GK5216-0HA00-2AS6 (EMC1*), (2), (8), (13), (28)
SCALANCE XP216 EEC	6GK5216-0HA00-2ES6 (EMC1*), (2), (8), (13), (28)
SCALANCE XP216 EIP	6GK5216-0HA00-2TS6 (EMC1*), (2), (8), (13), (28)
SCALANCE XC224	6GK5224-0BA00-2AC2 (EMC2), (2), (8), (13), (28), (30)
SCALANCE X224	6GK5224-0BA00-2AA3 (EMC2), (2), (8), (13), (18), (28)
SCALANCE X302-7EEC	6GK5302-7GD00-1EA3 (EMC1*), (2), (8), (18), (27)
SCALANCE X302-7EEC	6GK5302-7GD00-1GA3 (EMC1*), (2), (8), (18), (27)
SCALANCE X302-7EEC	6GK5302-7GD00-2EA3 (EMC1*), (2), (8), (18), (27)
SCALANCE X302-7EEC	6GK5302-7GD00-2GA3 (EMC1*), (2), (8), (18), (27)
SCALANCE X302-7EEC	6GK5302-7GD00-3EA3 (EMC1*), (27)
SCALANCE X302-7EEC	6GK5302-7GD00-3GA3 (EMC1*), (27)
SCALANCE X302-7EEC	6GK5302-7GD00-4EA3 (EMC1*), (27)
SCALANCE X302-7EEC	6GK5302-7GD00-4GA3 (EMC1*), (27)

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**TYPE (continues)**

SCALANCE X304-2FE	6GK5304-2BD00-2AA3 (EMC2), (2), (8), (13), (18), (28)
SCALANCE X306-1LD FE	6GK5306-1BF00-2AA3 (EMC1*), (2), (8), (13), (18), (28)
SCALANCE X307-2EEC	6GK5307-2FD00-1EA3 (EMC2), (2), (8), (18), (27)
SCALANCE X307-2EEC	6GK5307-2FD00-1GA3 (EMC2), (2), (8), (18), (27)
SCALANCE X307-2EEC	6GK5307-2FD00-2EA3 (EMC2), (2), (8), (18), (27)
SCALANCE X307-2EEC	6GK5307-2FD00-2GA3 (EMC2), (2), (8), (18), (27)
SCALANCE X307-2EEC	6GK5307-2FD00-3EA3 (EMC2), (27)
SCALANCE X307-2EEC	6GK5307-2FD00-3GA3 (EMC2), (27)
SCALANCE X307-2EEC	6GK5307-2FD00-4EA3 (EMC2), (27)
SCALANCE X307-2EEC	6GK5307-2FD00-4GA3 (EMC2), (27)
SCALANCE X307-3	6GK5307-3BL10-2AA3 (EMC2), (2), (8), (13), (28), (32)
SCALANCE X307-3LD	6GK5307-3BM10-2AA3 (EMC2), (2), (8), (13), (28), (32)
SCALANCE X308-2	6GK5308-2FL10-2AA3 (EMC2), (2), (8), (13), (28), (32)
SCALANCE X308-2LD	6GK5308-2FM10-2AA3 (EMC2), (2), (8), (13), (28), (32)
SCALANCE X308-2LH	6GK5308-2FN10-2AA3 (EMC2), (2), (8), (13), (28), (32)
SCALANCE X308-2LH+	6GK5308-2FP10-2AA3 (EMC2), (2), (8), (13), (28), (32)
SCALANCE X308-2M	6GK5308-2GG00-2AA2 (EMC2), (2), (8), (13), (18), (28)
SCALANCE X308-2M	6GK5308-2GG10-2AA2 (EMC1)
SCALANCE X308-2M TS	6GK5308-2GG10-2CA2 (EMC1)
SCALANCE X308-2M PoE	6GK5308-2QG10-2AA2 (EMC1)
SCALANCE X308-2M PoE	6GK5308-2QG00-2AA2 (EMC2), (2), (8), (13), (18), (28)
SCALANCE X310FE	6GK5310-0BA10-2AA3 (EMC2), (2), (8), (13), (28), (30)
SCALANCE X310	6GK5310-0FA10-2AA3 (EMC2), (2), (8), (13), (28), (30)
SCALANCE X320-1 FE	6GK5320-1BD00-2AA3 (EMC1*), (2), (8), (13), (18), (28)
SCALANCE X320-3 LD	6GK5320-3BF00-2AA3 (EMC1*), (2), (8), (13), (18), (28)
SCALANCE XR324-12M	6GK5324-0GG00-1AR2 (EMC1*), (2), (8), (13), (18), (28)
SCALANCE XR324-12M	6GK5324-0GG00-1HR2 (EMC1*), (2), (8), (13), (18), (28)
SCALANCE XR324-12M	6GK5324-0GG00-3HR2 (EMC1*), (27)

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SCALANCE XR324-12M	6GK5324-0GG10-1AR2 (EMC1), (2), (8), (13), (28), (30)
SCALANCE XR324-12M	6GK5324-0GG10-1CR2 (EMC1), (2), (8), (13), (28), (30)
SCALANCE XR324-12M	6GK5324-0GG10-1HR2 (EMC1), (2), (8), (13), (28), (30)
SCALANCE XR324-12M	6GK5324-0GG10-3AR2 (EMC1*), (27)
SCALANCE XR324-12M	6GK5324-0GG10-3HR2 (EMC1*), (27)
SCALANCE XR324-4M EEC	6GK5324-4GG00-1ER2 (EMC1*), (2), (8), (13), (18), (28)
SCALANCE XR324-4M EEC	6GK5324-4GG00-1JR2 (EMC1*), (2), (8), (13), (18), (28)
SCALANCE XR324-4M EEC	6GK5324-4GG00-2ER2 (EMC1*), (2), (8), (13), (18), (28)
SCALANCE XR324-4M EEC	6GK5324-4GG00-2JR2 (EMC1*), (2), (8), (13), (18), (28)
SCALANCE XR324-4M EEC	6GK5324-4GG00-3ER2 (EMC1*), (27)
SCALANCE XR324-4M EEC	6GK5324-4GG00-3JR2 (EMC1*), (27)
SCALANCE XR324-4M EEC	6GK5324-4GG00-4ER2 (EMC1*), (27)
SCALANCE XR324-4M EEC	6GK5324-4GG00-4JR2 (EMC1*), (27)
SCALANCE XR324-4M EEC	6GK5324-4GG10-1ER2 (EMC1*), (2), (8), (13), (28), (30)
SCALANCE XR324-4M EEC	6GK5324-4GG10-1JR2 (EMC1*), (2), (8), (13), (28), (30)
SCALANCE XR324-4M EEC	6GK5324-4GG10-2ER2 (EMC1*), (2), (8), (13), (28), (30)
SCALANCE XR324-4M EEC	6GK5324-4GG10-2JR2 (EMC1*), (2), (8), (13), (28), (30)
SCALANCE XR324-4M EEC	6GK5324-4GG10-3ER2 (EMC1), (27)
SCALANCE XR324-4M EEC	6GK5324-4GG10-3JR2 (EMC1), (27)

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SCALANCE XR324-4M EEC	6GK5324-4GG10-1ER2 (EMC1*), (2), (8), (13), (28), (30)
SCALANCE XR324-4M EEC	6GK5324-4GG10-1JR2 (EMC1*), (2), (8), (13), (28), (30)
SCALANCE XR324-4M PoE	6GK5324-4QG00-1AR2 (EMC1*), (2), (8), (13), (18), (28)
SCALANCE XR324-4M PoE	6GK5324-4QG00-1HR2 (EMC1*), (2), (8), (13), (18), (28)
SCALANCE XR324-4M PoE	6GK5324-4QG00-3AR2 (EMC1*), (27)
SCALANCE XR324-4M PoE	6GK5324-4QG00-3HR2 (EMC1*), (27)
SCALANCE XR324-4M PoE	6GK5324-4QG10-1AR2 (EMC1*), (2), (8), (13), (28), (30)
SCALANCE XR324-4M PoE	6GK5324-4QG10-1CR2 (EMC1*), (2), (8), (13), (28), (30)
SCALANCE XR324-4M PoE	6GK5324-4QG10-1HR2 (EMC1*), (2), (8), (13), (28), (30)
SCALANCE XR324-4M PoE	6GK5324-4QG10-3AR2 (EMC1*), (27)
SCALANCE XR324-4M PoE	6GK5324-4QG10-3HR2 (EMC1*), (27)
PORT EXTENDER PE400- 8SFP	6GK5400-8AS00-8AP2 (EMC2), (2), (8), (13), (18), (27), (28)
PORT EXTENDER PE408	6GK5408-0GA00-8AP2 (EMC2), (2), (8), (13), (18), (27), (28)
PORT EXTENDER PE408POE	6GK5408-0PA00-8AP2 (EMC2), (2), (8), (13), (18), (27), (28)
SCALANCE XM408-4C	6GK5408-4GP00-2AM2 (EMC2), (2), (8), (13), (18), (27), (28)
SCALANCE XM408-4C	6GK5408-4GQ00-2AM2 (EMC2), (2), (8), (13), (18), (27), (28)

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<b>TYPE (continues)</b>	SCALANCE XM408-8C	6GK5408-8GR00-2AM2 (EMC2), (2), (8), (13), (18), (27), (28)
	SCALANCE XM408-8C	6GK5408-8GS00-2AM2 (EMC2), (2), (8), (13), (18), (27), (28)
	SCALANCE XM416-4C	6GK5416-4GR00-2AM2 (EMC2), (2), (8), (13), (18), (27), (28)
	SCALANCE XM416-4C	6GK5416-4GS00-2AM2 (EMC2), (2), (8), (13), (18), (27), (28)
	SCALANCE XR524-8C	6GK5524-8GR00-2AR2 (EMC1*), (2), (8), (13), (22), (28)
	SCALANCE XR524-8C	6GK5524-8GR00-3AR2 (EMC2), (28)
	SCALANCE XR524-8C	6GK5524-8GR00-4AR2 (EMC2), (28)
	SCALANCE XR524-8C	6GK5524-8GS00-2AR2 (EMC1*), (2), (8), (13), (22), (28)
	SCALANCE XR524-8C	6GK5524-8GS00-3AR2 (EMC2), (28)
	SCALANCE XR524-8C	6GK5524-8GS00-4AR2 (EMC2), (28)
	SCALANCE XR526-8C	6GK5526-8GR00-2AR2 (EMC1*), (2), (8), (13), (28)
	SCALANCE XR526-8C	6GK5526-8GR00-3AR2 (EMC1*), (28)
	SCALANCE XR526-8C	6GK5526-8GR00-4AR2 (EMC1*), (28)
	SCALANCE XR526-8C	6GK5526-8GS00-2AR2 (EMC1*), (2), (8), (13), (28)
	SCALANCE XR526-8C	6GK5526-8GS00-3AR2 (EMC1*), (28)
	SCALANCE XR526-8C	6GK5526-8GS00-4AR2 (EMC1*), (28)
	SCALANCE XR528-6M	6GK5528-0AA00-2AR2 (EMC1*), (2), (8), (13), (18), (28)
	SCALANCE XR528-6M	6GK5528-0AA00-2HR2 (EMC1*), (2), (8), (13), (18), (28)
	SCALANCE XR528-6M	6GK5528-0AR00-2AR2 (EMC1*), (2), (8), (13), (18), (28)
	SCALANCE S	
	SCALANCE S602	6GK5602-0BA10-2AA3 (EMC1*), (2), (8), (13), (18), (27), (28)
	SCALANCE S612	6GK5612-0BA10-2AA3 (EMC1*), (2), (8), (13), (18), (27), (28)
	SCALANCE S613	6GK5613-0BA00-2AA3 (EMC1**), (2), (8), (13), (18), (28)
	SCALANCE S615	6GK5615-0AA00-2AA2 (EMC1*), (2), (8), (13), (18), (28)

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<b>TYPE (continues)</b>	SCALANCE S623	6GK5623-0BA10-2AA3 (EMC1*), (2), (8), (13), (18), (27), (28)
	SCALANCE S627-2M	6GK5627-2BA10-2AA3 (EMC1*), (2), (8), (13), (18), (27), (28)
	SCALANCE SC632-2C	6GK5632-2GS00-2AC2 (EMC1)
	SCALANCE SC632-2C	6GK5632-2GT00-2AC2 (EMC1)
	SCALANCE SC636-2C	6GK5636-2GS00-2AC2 (EMC1)
	SCALANCE SC636-2C	6GK5636-2GT00-2AC2 (EMC1)
	SCALANCE SC642-2C	6GK5642-2GS00-2AC2 (EMC1)
	SCALANCE SC642-2C	6GK5642-2GT00-2AC2 (EMC1)
	SCALANCE SC646-2C	6GK5646-2GS00-2AC2 (EMC1)
	SCALANCE SC646-2C	6GK5646-2GT00-2AC2 (EMC1)
	SCALANCE W (Industrial WLAN)	
	SCALANCE W734-1 RJ45	6GK5734-1FX00-0AA0 (EMC1), (2), (8), (13), (18), (28)
	SCALANCE W734-1 RJ45 USA	6GK5734-1FX00-0AB0 (EMC1), (2), (8), (13), (18), (28)
	SCALANCE W738	6GK5738-1GY00-0AA0 (EMC1), (2), (8), (13), (28), (30)
	SCALANCE W738 USA	6GK5738-1GY00-0AB0 (EMC1), (2), (8), (13), (28), (30)
	SCALANCE W748-1 RJ45	6GK5748-1FC00-0AA0 (EMC1), (2), (8), (13), (18), (28)
	SCALANCE W748-1 RJ45 USA	6GK5748-1FC00-0AB0 (EMC1), (2), (8), (13), (18), (28)
	SCALANCE W748-1 M12	6GK5748-1GD00-0AA0 (EMC1), (2), (8), (13), (18), (28)
	SCALANCE W748-1 M12 (USA)	6GK5748-1GD00-0AB0 (EMC1), (2), (8), (13), (18), (28)
	SCALANCE W774-1 RJ45	6GK5774-1FX00-0AA0 (EMC1), (2), (8), (13), (18), (28)
	SCALANCE W774-1 RJ45 USA	6GK5774-1FX00-0AB0 (EMC1), (2), (8), (13), (18), (28)
	SCALANCE W774-1 M12 EEC	6GK5774-1FY00-0TA0 (EMC1), (2), (8), (13), (18), (28)
	SCALANCE W774-1 M12 EEC USA	6GK5774-1FY00-0TB0 (EMC1), (2), (8), (13), (18), (28)

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**TYPE (continues)**

SCALANCE W778	6GK5778-1GY00-0AA0 (EMC1), (2), (8), (13), (28), (30)
SCALANCE W778 USA	6GK5778-1GY00-0AB0 (EMC1), (2), (8), (13), (28), (30)
SCALANCE W778	6GK5778-1GY00-0TA0 (EMC1), (2), (8), (13), (28), (30)
SCALANCE W778 USA	6GK5778-1GY00-0TB0 (EMC1), (2), (8), (13), (28), (30)
SCALANCE W788-1 RJ45	6GK5788-1FC00-0AA0 (EMC1), (2), (8), (13), (18), (28)
SCALANCE W788-1 RJ45 USA	6GK5788-1FC00-0AB0 (EMC1), (2), (8), (13), (18), (28)
SCALANCE W788-1 M12	6GK5788-1GD00-0AA0 (EMC1), (2), (8), (13), (18), (28)
SCALANCE W788-1 M12 USA	6GK5788-1GD00-0AB0 (EMC1), (2), (8), (13), (18), (28)
SCALANCE W788-2 RJ45	6GK5788-2FC00-0AA0 (EMC1), (2), (8), (13), (18), (28)
SCALANCE W788-2 RJ45 USA	6GK5788-2FC00-0AB0 (EMC1), (2), (8), (13), (18), (28)
SCALANCE W788C-2 RJ45	6GK5788-2FC00-1AA0 (EMC1), (2), (8), (13), (18), (28)
SCALANCE W788-2 M12	6GK5788-2GD00-0AA0 (EMC1), (2), (8), (13), (18), (28)
SCALANCE W788-2 M12 USA	6GK5788-2GD00-0AB0 (EMC1), (2), (8), (13), (18), (28)
SCALANCE W788-2 M12 TS	6GK5788-2GD00-0TA0 (EMC1), (2), (8), (13), (18), (28)
SCALANCE W788-2 M12 USA TS	6GK5788-2GD00-0TB0 (EMC1), (2), (8), (13), (18), (28)
SCALANCE W788C-2 M12	6GK5788-2GD00-1AA0 (EMC1), (2), (8), (13), (18), (28)
SCALANCE W788C-2 M12 EEC	6GK5788-2GD00-1TA0 (EMC1), (2), (8), (13), (18), (28)
SCALANCE W (ACCESSORY)	
POWER SUPPLY PS 791- 1PRO	6GK5791-1PS00-0AA6 (EMC1*), (29)
POWER SUPPLY PS791- 2AC	6GK5791-2AC00-0AA0 (EMC1*), (2), (8), (26), (29)

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**TYPE (continues)**

IWLAN ANTENNA ANT795-6DC	6GK5795-6DC00-0AA0 (EMC1)
IWLAN ANTENNA MOUNTING TOOL (ANT795-6MN)	6GK5795-6MN01-0AA6 (EMC1)
IWLAN ANTENNA ANT795-6MN	6GK5795-6MN10-0AA6 (EMC1)
IWLAN ANTENNA ANT795-6MT	6GK5795-6MT00-0AA0 (EMC1)
SCALANCE M SCALANCE M826-2 SHDSL-ROUTER	6GK5826-2AB00-2AB2 (EMC1), (2), (8), (13), (18), (28)
SCALANCE X (ACCESSORY)	
SFP991-1	6GK5991-1AD00-8AA0 (EMC2), (2), (8), (13), (18), (28)
SFP991-1LH+	6GK5991-1AE00-8AA0 (EMC2), (2), (8), (13), (18), (28)
SFP991-1LD	6GK5991-1AF00-8AA0 (EMC2), (2), (8), (13), (18), (28)
MEDIA MODULE MM991-2 (BFOC)	6GK5991-2AB00-8AA0 (EMC2), (2), (3), (8), (9), (13), (18), (28)
MEDIA MODULE MM991-2FM (SC)	6GK5991-2AB01-8AA0 (EMC1), (2), (8), (13), (18), (28)
MEDIA MODULE MM991-2LD (BFOC)	6GK5991-2AC00-8AA0 (EMC2), (2), (8), (13), (18), (28)
MEDIA MODULE MM991-2 (SC)	6GK5991-2AD00-8AA0 (EMC2), (2), (8), (13), (18), (28)
MEDIA MODULE MM991-2LH+ (SC)	6GK5991-2AE00-8AA0 (EMC2), (2), (8), (13), (18), (28)
MEDIA MODULE MM991-2LD (SC)	6GK5991-2AF00-8AA0 (EMC2), (2), (8), (13), (18), (28)
MEDIA MODULE MM991-2 (BFOC)	6GK5991-2AH00-8AA0 (EMC1), (2), (8), (13), (18), (28)

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**TYPE (continues)**

MEDIA MODULE MM991-2 (BFOC)	6GK5991-4AB00-8AA0 (EMC2), (2), (8), (13), (18), (28)
MEDIA MODULE MM991-2LD (BFOC)	6GK5991-4AC00-8AA0 (EMC2), (2), (8), (13), (18), (28)
SFP992-1	6GK5992-1AL00-8AA0 (EMC2), (2), (8), (13), (18), (28)
SFP992-1LD	6GK5992-1AM00-8AA0 (EMC2), (2), (8), (13), (18), (28)
SFP992-1LH	6GK5992-1AN00-8AA0 (EMC2), (2), (8), (13), (18), (28)
SFP992-1LH+	6GK5992-1AP00-8AA0 (EMC2), (2), (8), (13), (18), (28)
SFP992-1ELH	6GK5992-1AQ00-8AA0 (EMC2), (2), (8), (13), (18), (28)
MEDIA MODULE MM992-2(SC)	6GK5992-2AL00-8AA0 (EMC2), (2), (8), (13), (18), (28)
MEDIA MODULE MM992-2LD (SC)	6GK5992-2AM00-8AA0 (EMC2), (2), (8), (13), (18), (28)
MEDIA MODULE MM992-2LH (SC)	6GK5992-2AN00-8AA0 (EMC2), (2), (8), (13), (18), (28)
MEDIA MODULE MM992-2LH+(SC)	6GK5992-2AP00-8AA0 (EMC2), (2), (8), (13), (18), (28)
MEDIA MODULE MM992-2ELH (SC)	6GK5992-2AQ00-8AA0 (EMC2), (2), (8), (13), (18), (28)
MEDIA MODULE MM992-2SFP	6GK5992-2AS00-8AA0 (EMC2), (2), (8), (13), (18), (28)
MEDIA MODULE MM992-2CUC (RJ45)	6GK5992-2GA00-8AA0 (EMC2), (2), (8), (13), (18), (28)
MEDIA MODULE MM992-2CU (RJ45)	6GK5992-2SA00-8AA0 (EMC2), (2), (8), (13), (18), (28)
MEDIA MODULE MM992-2VD (VARIAB. DISTANCE)	6GK5992-2VA00-8AA0 (EMC1), (2), (8), (13), (18), (28)
MEDIA MODULE MM992-2	6GK5992-4AL00-8AA0 (EMC2), (2), (8), (13), (18), (28)
MEDIA MODULE MM992-4LD	6GK5992-4AM00-8AA0 (EMC2), (2), (8), (13), (18), (28)

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**TYPE (continues)**

MEDIA MODULE MM992-4SFP	6GK5992-4AS00-8AA0 (EMC2), (2), (8), (13), (18), (28)
MEDIA MODULE MM992-4CUC	6GK5992-4GA00-8AA0 (EMC2), (2), (8), (13), (18), (28)
MEDIA MODULE MM992-4CU	6GK5992-4SA00-8AA0 (EMC2), (2), (8), (13), (18), (28)
SFP993-1	6GK5993-1AT00-8AA0 (EMC2), (2), (8), (13), (18), (28)
SFP993-1LD	6GK5993-1AU00-8AA0 (EMC2), (2), (8), (13), (18), (28)
SFP993-1LH	6GK5993-1AV00-8AA0 (EMC2), (2), (8), (13), (18), (28)
COMMUNICATION MODULES 1200	
COMMUNICATION MODULE CM 1242-5	6GK7242-5DX30-0XE0 (EMC2), (4), (10), (14), (23), (27)
COMMUNICATION MODULE CM 1243-5	6GK7243-5DX30-0XE0 (EMC2), (4), (10), (14), (23), (27)
COMPACT SWITCH MODULES	
COMPACT SWITCH MODULE CSM 1277	6GK7277-1AA10-0AA0 (EMC2), (4), (10), (17), (27)
COMPACT SWITCH MODULE CSM 377	6GK7377-1AA00-0AA0 (EMC2), (1), (7), (14), (24), (27)
COMMUNICATION PROCESSOR	
COMMUNICATION PROCESSOR CP 442-1 RNA	6GK7442-1RX00-0XE0 (EMC2), (5), (11), (14), (16), (27)
COMMUNICATION PROCESSOR CP 443-1 RNA	6GK7443-1RX00-0XE0 (EMC2), (5), (11), (14), (16), (27)
CP 443-1 OPC UA	6GK7443-1UX00-0XE0 (EMC2), (3),(11),(14),(16),(27)
CP 443-1 OPC UA	6GK7443-1UX00-0XE1 (EMC2), (3),(11),(14),(16),(27)
COMMUNICATION MODULES 1500	

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<b>TYPE (continues)</b>	CM 1542-1	6GK7542-1AX00-0XE0 (EMC1*), (6), (12), (14), (25), (27)
	SCALANCE X (BUSADAPTER) for XF204-2BA IRT +, XF204- 2BA, XF204-2BA DNA	
	BUSADAPTER BA 2X RJ45	6ES7193-6AR00-0AA0
	BUSADAPTER RJ45 / RJ45	6AG1193-6AR00-7AA0
	BUSADAPTER FC / FC	6AG1193-6AF00-7AA0
	BUSADAPTER BA 2X FC	6ES7193-6AF00-0AA0
	SCALANCE X (BUSADAPTER) for XF204-2BA, XF204-2BA DNA	
	BUSADAPTER 2xRJ45 HA	6DL1193-6AR00-0AA0
	BUSADAPTER BA 2X FC HA	6DL1193-6AF00-0AA0
	BUSADAPTER BA 2X SCRJ	6ES7193-6AP00-0AA0
	BUSADAPTER BA 2X SCRJ	6AG1193-6AP00-2AA0
	BUSADAPTER BA 2X SCRJ/RJ45	6ES7193-6AP20-0AA0
	BUSADAPTER BA 2X SCRJ/FC	6ES7193-6AP40-0AA0
	BUSADAPTER BA 2X LC	6ES7193-6AG00-0AA0
	BUSADAPTER BA 2X LC HA	6DL1193-6AG00-0AA0
	BUSADAPTER BA 2X LC/RJ45	6ES7193-6AG20-0AA0
	BUSADAPTER BA 2X LC/FC	6ES7193-6AG40-0AA0

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**TYPE (continues)**

(1)	= ATEX - Certificate	Kema 03ATEX1228 X
(2)	= ATEX - Certificate	Kema 07ATEX0145 X
(3)	= ATEX - Certificate	DEKRA 11ATEX0060X
(4)	= ATEX - Certificate	Kema 10ATEX0166 X
(5)	= ATEX - Certificate	Kema 03ATEX1125 X
(6)	= ATEX - Certificate	DEKRA 12ATEX0240 X
(7)	= IECEX - Certificate	IECEX DEK 14.0086X
(8)	= IECEX - Certificate	IECEX DEK 14.0025X
(9)	= IECEX - Certificate	IECEX DEK 14.0026X
(10)	= IECEX - Certificate	IECEX DEK 14.0088X
(11)	= IECEX - Certificate	IECEX DEK 14.0034X
(12)	= IECEX - Certificate	IECEX DEK 14.0089X
(13)	= UL HAZ LOC Certificate	E240480
(14)	= UL HAZ LOC Certificate	E223122
(15)	= FM - Certificate of Compliance	3021907
(16)	= FM - Certificate of Compliance	3002335
(17)	= FM - Certificate of Compliance	3029393
(18)	= FM - Certificate of Compliance	3021712
(19)	= FM - Certificate of Compliance	3026108
(20)	= FM - Certificate of Compliance	3021908
(21)	= FM - Certificate of Compliance	3029875
(22)	= FM - Certificate of Compliance	3045898
(23)	= FM - Certificate of Compliance	3040919
(24)	= FM - Certificate of Compliance	3032236
(25)	= FM - Certificate of Compliance	3047741
(26)	= FM - Certificate of Compliance	3030671
(27)	= UL - Certificate	E85972
(28)	= UL - Certificate	E115352
(29)	= UL - Certificate	E249351
(30)	= FM - Certificate of Compliance	FM16US0205X
(31)	= FM - Certificate of Compliance	FM16US0217X
(32)	= FM - Certificate of Compliance	FM16US0381X

<b>Certificate No.</b>	16/20067 (E2)
<b>Issue Date</b>	02 April 2019
<b>Expiry Date</b>	28 June 2021
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LR031.1.2016.06

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<b>RATING</b>	Power supply (V DC): 24 V
<b>APPLICATION</b>	Marine, offshore and industrial applications for use in environmental categories ENV1, ENV2 and ENV3 as defined in Lloyd's Register's Type Approval System, Test Specification Number 1 - July 2015.
<b>ADDITIONAL TEST</b>	Low temperature (-25°C/16 hrs)
<b>STANDARDS</b>	Manufacturer's specification
<b>OTHER CONDITIONS</b>	<p>Products marked with "(EMC2)" fulfil the EMC requirements for installation in General power Distribution zones.</p> <p>Products marked with "(EMC1)" fulfil the EMC requirements for installation in Bridge and Deck Zone.</p> <p>Products marked with "(EMC1*)" fulfil the EMC requirements for installation in Bridge and Deck Zone with Filter (I=3A, C=2x0.47µF+2x4700pF).</p> <p>Products marked with "(EMC1**)" fulfil the EMC requirements for installation in Bridge and Deck Zone with Filter (I=3A, C=2x0.47µF+2x4700pF) + Ferrit 24V DC Type 74271222 (Würth).</p> <p>Security Modules 6GK5612/613/602 are only to be used with Ferrit 24V DC Type: 742 712 22 (Würth)</p> <p>Rating for application in hazardous areas are to be obtained from applicable Ex Certificates.</p> <p>Scalance W748, W788, W734, W774 and, 6GK5788 are only to be used in an environment where the wireless LAN Communication does not interfere with other equipment or systems.</p>

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**OTHER CONDITIONS**  
safety(**continues**)

Wireless data communication links are not to be used for critical systems or essential services that are required for the propulsion or safety of the ship

**Installation:**

- OSM/ESM: Installation only with S7-300 profile rail or wall mounting
- Modular Outlet: Installation with mounting rail 35mm or wall mounting possible.
- Scalance 6GK5104-2, 106-1, 108, 204-2, 206-1, 208, 202-2 IRT, 204IRT, 101, 005, 112, 116, 124, 212, 216, 224, 307, 308, 310: Installation with S7-300 profile rail or mounting rail 35mm or wall mounting possible.
- IE/PB Link: Installation only with S7-300 profile rail.
- Power supply: Installation with S7-300 profile rail, mounting rail 35mm or wall mounting possible.
- OLM: Installation with mounting rail 35mm
- Scalance 6GK5408: Installation with S7-300 profile rail or mounting rail 35mm.

*"This Certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid certificate."*

*The Design Appraisal Document No. HTS/ETS 38047-19 and its supplementary Type Approval Terms and Conditions form part of this Certificate.*

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