Electronically published by ABS Hamburg.
Reference WO0442659, dated 20-Feb-2026

CERTIFICATE NUMBER	26-0442659-PDA
EFFECTIVE DATE	20-Feb-2026
EXPIRY DATE	19-Feb-2031
ABS TECHNICAL OFFICE	Hamburg Engineering Department

CERTIFICATE OF

Product Design Assessment

This is to certify that a representative of this Bureau did, at the request of

SIEMENS AG - PROCESS AUTOMATION

located at

OESTLICHE RHEINBRUECKEN STR. 50, , KARLSRUHE, Germany, D-76187

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate.

Product:	**Ethernet LAN Components**
Model:	**SIMATIC NET**
Endorsements:	
Tier:	**2 - PDA Issued**

This Product Design Assessment (PDA) Certificate remains valid until 19/Feb/2031 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

American Bureau Of Shipping

Efstratios Maliatsos, Engineer/Consultant

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of ABS or a statutory, industrial or manufacturer's standards. It is issued solely for the use of ABS, its committees, its clients or other authorized entities. Any significant changes to the aforementioned product without approval from ABS will result in this certificate becoming null and void. This certificate is governed by ABS Rules 1-1-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010)

Sensitivity: Internal & Restricted

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Tier: 2 - PDA Issued

Product: **Ethernet LAN Components**
Model: **SIMATIC NET**
Endorsements:

Intended Service:
Marine & Offshore - Industrial Ethernet Switches for Network Applications.

Description:
SCALANCE XCM102 (6GK5102-1GS00-2AC2)
SCALANCE XCM108PoE (Giga) (6GK5108-0RA00-2AC2)
SCALANCE XCM108PoE (6GK5108-0PA00-2AC2)
SCALANCE XCM108PoE (6GK5108-2RS00-2AC2)
SCALANCE XCH108PoE lack (6GK5108-2RS00-2FC2)
SCALANCE XC206-2SFP G (6GK5206-2GS00-2AC2)
SCALANCE XC206-2SFP G (EIP) (6GK5206-2GS00-2TC2)
SCALANCE XC206-2SFP G EEC (6GK5206-2GS00-2FC2)
SCALANCE XC208G (6GK5208-0GA00-2AC2)
SCALANCE XC208G (EIP) (6GK5208-0GA00-2TC2)
SCALANCE XC208G EEC (6GK5208-0GA00-2FC2)
SCALANCE XC224-4C G (6GK5224-4GS00-2AC2)
SCALANCE XC224-4C G (EIP) (6GK5224-4GS00-2TC2)
SCALANCE XC224-4C G EEC (6GK5224-4GS00-2FC2)
SCALANCE XC216-4C G (6GK5216-4GS00-2AC2)
SCALANCE XC216-4C G (EIP) (6GK5216-4GS00-2TC2)
SCALANCE XC216-4C G EEC (6GK5216-4GS00-2FC2)
SCALANCE XC216-4C (6GK5216-4BS00-2AC2)
SCALANCE XC206-2G PoE (6GK5206-2RS00-2AC2)
SCALANCE XC208G PoE (6GK5208-0RA00-2AC2)
SCALANCE XC216-3G PoE (6GK5216-3RS00-2AC2)
SCALANCE XC208 (6GK5208-0BA00-2AC2)
SCALANCE XC208EEC (6GK5208-0BA00-2FC2)
SCALANCE XR326-8 (24V DC) (6GK5334-2TS00-2AR3)
SCALANCE XRM334 (24V DC, 12xFO) (6GK5334-3TS01-2AR3)
SCALANCE XRM334 (24V DC, 8xFO) (6GK5334-2TS01-2AR3)
SCALANCE XRH334 (24V DC, 8xFO, CC) (6GK5334-2TS01-2ER3)
SCALANCE XR322-12 (24V DC) (6GK5334-3TS00-2AR3)
SCALANCE XR326-8EEC (Conf. Coating) (6GK5334-2TS00-2ER3)
SCALANCE XR522-12 (6GK5534-3TR00-2AR3)
SCALANCE XR526-8 (6GK5534-2TR00-2AR3)
Transceiver SFP992-1LD (6GK5 992-1AM00-8AA0)
Transceiver SFP993-1LD (6GK5 993-1AU00-8AA0)
Transceiver SFP993-1 (6GK5 993-1AT00-8AA0)
Transceiver SFP992-1 (6GK5 992-1AL00-8AA0)
SCALANCE SC636-2C (6GK5636-2GS00-2AC2)
SCALANCE SC632-2C (6GK5632-2GS00-2AC2)
SCALANCE SC642-2C (6GK5642-2GS00-2AC2)
SCALANCE SC646-2C (6GK5646-2GS00-2AC2)

Rating:
Operation Voltage: 24V DC
Degree of Protection: IP 20
Ambient Operating Temperature: -40 °C to +60 °C

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Tier: 2 - PDA Issued

Service Restriction:
1. Unit Certification is not required for this product. If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.
2. SCALANCE XC206-2SFP G EIP /EEC (6GK5206-2GS00-2AC2/ -2TC2/ -2FC2), SCALANCE XC208G / EIP/ EEC (6GK5208-0GA00-2AC2/ -2TC2/ -2FC2), SCALANCE XCM108PoE / Giga (6GK5108-0PA00-2AC2 /6GK5108-0RA00-2AC2), SCALANCE XCM108PoE /lack (6GK5108-2RS00-2AC2/-2FC2) fulfill the requirements for installation in the bridge and deck zone with EMC filter EPCOS B84113-C-B30.
3. SCALANCE XC206-2G PoE (6GK5206-2RS00-2AC2), SCALANCE XC208G PoE (6GK5208-0RA00-2AC2), SCALANCE XC216-3G PoE (6GK5216-3RS00-2AC2) fulfill the requirements for installation in the bridge and deck zone with EMC filter EPCOS B84111F0000B120.
4. SCALANCE XRM334 (24V DC, 12xFO) (6GK5334-3TS01-2AR3) fulfills the requirements for installation in the bridge and deck zone with EMC filter EPCOS B84113C0000B030.

Comments:
The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.

Notes/Drawing/Documentation:
Drawing No. Product Masterlist SIMATIC NET, Listing
Drawing No. 22-E009704-BM-A01 Specification and Test Report Marine SIMATIC NE
Drawing No. BA_SCALANCE-XC-200_76, Manual / Technical Specifications, Revision: 01
Drawing No. BA_SCALANCE-XCM-100-MC_0, Manual / Technical Specifications, Revision: 01
Drawing No. BA_SCALANCE-XCM-100_76, Manual / Technical Specifications, Revision: 01
Drawing No. Additional document to EMC-Report_K005487_01_2017_E_A01
Drawing No. Additional document to EMC-Report_K005487_01_2017_E_B01
Drawing No. Additional document to EMC-Report_K006026_06_2021_E_A01
Drawing No. Additional document to EMC-Report_sig_K006026_01_2020_E_A
Drawing No. Additional document to EMC-Report_sig_K006026_01_2020_E_B01
Drawing No. Deviation information XC224-4C G_K005705_01_2018_E_A02
Drawing No. P60-23-0073, SCALANCE XCM102, Needle Flame Test, RST GmbH, 29.03.2023
Drawing No. P60-23-0074, SCALANCE X204IRT, Needle Flame Test, RST GmbH, 29.03.2023

Test Reports

SCALANCE XCM102 (6GK5102-1GS00-2AC2)
Drawing No. K006380_02_2022_E_A01, EMC Test report, Type Test Center Karlsruhe, dated 2022-03-11, Revision: A01, Pages: 95
Drawing No. K006380_02_2022_K_A01, Climatic Test report, Type Test Center Karlsruhe, dated 2022-05-12, Revision: A01, Pages: 26
Drawing No. K006380_02_2022_M_A01, Mechanical Test report, Type Test Center Karlsruhe, dated 2022-06-20, Revision: A01, Pages: 38
Drawing No. K6380_XCM102_High-Voltage-Test, HV Test report, Type Test Center Karlsruhe, dated 2022-08-18, Revision: 01, Pages: 2
Drawing No. P60-23-0073, SCALANCE XCM102, Needle Flame Test, RST GmbH, 29.03.2023

SCALANCE XCM108PoE (6GK5108-0RA00-2AC2)
Drawing No. K006439_01_2022_E_B01, EMC Test report, Type Test Center Karlsruhe, dated 2022-05-18, Revision: B01, Pages: 100
Drawing No. K006439_01_2022_K_A02, Climatic Test report, Type Test Center Karlsruhe, dated 2022-03-08, Revision: A02, Pages: 27
Drawing No. K006439_01_2022_M_A01, Mechanical Test report, Type Test Center Karlsruhe, dated 2022-06-23, Revision: A01, Pages: 27
Drawing No. XCx108PoE_High-Voltage-Test_K6439, HV Test report, Type Test Center Karlsruhe, dated 2022-08-

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10, Revision: 01, Pages: 2

SCALANCE XCM108PoE (6GK5108-2RS00-2AC2)
Drawing No. K006439_01_2022_K_A02, Climatic Test report, Type Test Center Karlsruhe, dated 2022-03-08, Revision: A02, Pages: 27
Drawing No. K006439_01_2022_E_A01, EMC Test report, Type Test Center Karlsruhe, dated 2022-05-18, Revision: A01, Pages: 102
Drawing No. K006439_01_2022_M_B01, Mechanical Test report, Type Test Center Karlsruhe, dated 2022-06-23, Revision: B01, Pages: 37
Drawing No. XCx108PoE_High-Voltage-Test_K6439, HV Test report, Type Test Center Karlsruhe, dated 2022-08-10, Revision: 01, Pages: 2

SCALANCE XC206-2G PoE (6GK5206-2RS00-2AC2)
Drawing No. K005923_01_2019_M_B02, Mechanical Test report, Type Test Center Karlsruhe, dated 2022-09-13, Revision: B02, Pages: 28
Drawing No. K005923_01_2020_K_B02, Climatic Test report, Type Test Center Karlsruhe, dated 2022-09-13, Revision: B02, Pages: 29
Drawing No. K006026_01_2020_E_A01, EMC Test report, Type Test Center Karlsruhe, dated 2020-05-28, Revision: 84, Pages: A01
Drawing No. K6026_XC20xG-PoE_24V_High-Voltage-Test, HV Test report, Type Test Center Karlsruhe, dated 2021-01-11, Revision: 01, Pages: 2
SCALANCE XC206-2SFP G (6GK5206-2GS00-2AC2)

Drawing No. K005487_01_2017_K_A01, Climatic Test report, Type Test Center Karlsruhe, dated 2018-01-18, Revision: A01, Pages: 21
Drawing No. K005568_01_2018_M_A02, Mechanical Test report, Type Test Center Karlsruhe, dated 2018-02-12, Revision: A02, Pages: 23
Drawing No. K005487_01_2017_E_A01, EMC Test Report, Type Test Center Karlsruhe, dated 2018-01-30, Revision: A01, Pages: 49
Drawing No. K5487_6GK5206-2GS00-2AC2_High-Voltage-Test02, HV Test report, Type Test Center Karlsruhe, dated 2019-04-29, Revision: 01, Pages: 3
Drawing No. 6GK5206-2BS00-2FC2_XC206-2SFP_EEC_A5E35875434B_003_DWG, Drawing, Revision: 003, Pages: 2

SCALANCE XC208G (6GK5208-0GA00-2AC2)
Drawing No. K005487_01_2017_K_A01, Climatic Test report, Type Test Center Karlsruhe, dated 2018-01-18, Revision: A01, Pages: 21
Drawing No. K005568_01_2018_M_A02, Mechanical Test report, Type Test Center Karlsruhe, dated 2018-02-12, Revision: A02, Pages: 23
Drawing No. K005487_01_2017_E_B01, EMC Test report, Type Test Center Karlsruhe, dated 2018-01-30, Revision: B01, Pages: 49
Drawing No. XC208G_HV-Test, HV Test report, Type Test Center Karlsruhe, dated 2021-03-23, Revision: 01, Pages: 2

SCALANCE XC208G PoE (6GK5208-0RA00-2AC2)
Drawing No. K005923_01_2019_M_A01, Mechanical Test report, Type Test Center Karlsruhe, dated 2020-03-09, Revision: A01, Pages: 28
Drawing No. K005923_01_2020_K_A01, Climatic Test report, Type Test Center Karlsruhe, dated 2020-05-03, Revision: A01, Pages: 29
Drawing No. K006026_01_2020_E_B01, EMC Test report, Type Test Center Karlsruhe, dated 2020-07-08, Revision: B01, Pages: 84

SCALANCE XC216-3G PoE (6GK5216-3RS00-2AC2)
Drawing No. K006026_02_2020_K_B01, Climatic Test report, Type Test Center Karlsruhe, dated 2020-11-18,

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Revision: B01, Pages: 29
Drawing No. K006026_02_2020_M_A01, Mechanical Test report, Type Test Center Karlsruhe, dated 2020-11-18, Revision: A01, Pages: 40
Drawing No. K006026_06_2021_E_A01, EMC Test report, Type Test Center Karlsruhe, dated 2021-04-13, Revision: A01, Pages: 88
Drawing No. K6209_XC216-3G-PoE_24V_High-Voltage-Test, HV Test report, Type Test Center Karlsruhe, dated 2022-05-30, Revision: 01, Pages: 2
SCALANCE XC224-4C G (6GK5224-4GS00-2AC2)

Drawing No. K005705_01_2018_E_A02, EMC Test report, Type Test Center Karlsruhe, dated 2018-11-13, Revision: A02, Pages: 85
Drawing No. K005705_01_2018_K_A01, Climatic Test report, Type Test Center Karlsruhe, dated 2018-09-04, Revision: A01, Pages: 24
Drawing No. K005705_01_2018_M_A01, Mechanical Test report, Type Test Center Karlsruhe, dated 2018-08-09, Revision: A01, Pages: 30
Drawing No. K5607_XC224_HV-Test, HV Test report, Type Test Center Karlsruhe, dated 2019-02-25, Revision: 01, Pages: 3

----------Reval.2026----------
Drawing No. 03, Product Masterlist SIMATIC NET, List of Products, Revision: -
Drawing No. GH_SCALANCE-XRM-XRH-300_76, Manual / Technical Specifications, Revision: 01
Drawing No. BA_SxP_76_en-US, Manual / Technical Specifications, Revision: 01
Drawing No. BA_SCALANCE-XC-200_76_en-US, Manual / Technical Specifications, Revision: 01
Drawing No. BA_SCALANCE-SC-600_0_de-DE, Manual / Technical Specifications, Revision: 01
Drawing No. BA_SCALANCE-XR-500-HWGEN2_76, Manual / Technical Specifications, Revision: 01
Drawing No. BA_SCALANCE-XR-300_76, Manual / Technical Specifications, Revision: 01
Drawing No. Additional document to Type Test Reports SC600_eng, Additional document to EMC-Mechanics-Climate Report, Revision: 01
Drawing No. SCALANCE_SC600_Derivation, SCALANCE_SC600_Derivation, Additional document to EMC-Mechanics-Climate Report, Revision: 01
Drawing No. SCALANCE SC646-2C_Derivation_EMC, Additional document to EMC-Report, Revision: 01
Drawing No. XRM334_XR300NG_XR500NG_derivation_information_24V, Additional document to EMC-Mechanics-Climate Report, Revision: 01
Drawing No. Zusatzdokument zur Zulassung_v2_sign, Additional document to EMC-Mechanics-Climate Report, Revision: 01
Drawing No. A5E35875434B_003_DWG, A5E35875434B_003_DWG, Drawing, Revision: 01

Test Reports

SCALANCE XC208 (6GK5208-0BA00-2AC2)
Drawing No. K005033_01_2015_K_A01, K005033_01_2015_K_A01, Climatic Test Report, Type Test Center Karlsruhe, dated 2016-01-27, Revision: 01
Drawing No. K004975_02_2016_M_B01, K004975_02_2016_M_B01, Mechanical Test report, Type Test Center Karlsruhe, dated 2016-04-20, Revision: 01
Drawing No. K006508_01_2022_E_F01, EMC Test report (electromagnetic field to 6Ghz), Type Test Center Karlsruhe, dated 2022-08-11, Revision: 01
Drawing No. K5033_XC200_High-Voltage -Test, HV Test report, Type Test Center Karlsruhe, dated 2016-05-09, Revision: 01
Drawing No. K005033_01_2015_E_A03, EMC Test report, Type Test Center Karlsruhe, dated 2016-07-22, Revision: 01
Drawing No. 25-E010418-BN-B01 Assessment Scalance XC 208, Assessment Report, dated 2025-01-08, Revision: 01

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SCALANCE SC646-2C (6GK5646-2GS00-2AC2)

Drawing No. K005076_01_2016_K_A01, Climatic Test Report, Type Test Center Karlsruhe, dated 2016-02-10, Revision: 01
Drawing No. K005076_01_2015_M_A01, Mechanical Test Report, Type Test Center Karlsruhe, dated 2015-12-18, Revision: 01
Drawing No. K005076_01_2015_E_A01, EMC-Report, Type Test Center Karlsruhe, dated 2016-02-22, Revision: 01
Drawing No. K005076_03_2016_E_A01, EMC Test report (voltage dips), Type Test Center Karlsruhe, dated 2016-09-16, Revision: 01
Drawing No. K005488_01_2017_E_A01, EMC Test Report (CISPR 16-2-1), Type Test Center Karlsruhe, dated 2017-07-10, Revision: 01
Drawing No. K006766_01_2023_E_A01, additional EMC Test report (CISPR 16-2-3 to 6GHz), Type Test Center Karlsruhe, dated 2023-10-04, Revision: 0
Drawing No. K005076_High-Voltage-Test, K005076_High-Voltage-Test, HV Test report, Type Test Center Karlsruhe, dated 2016-03-29, Revision: 01
Drawing No. 25-E010418-BN-C01 Assessment Scalance SC636-2C, Assessment Report, dated 2025-04-04, Revision: 01

SCALANCE XRM334 (24V DC, 12xFO) (6GK5334-3TS01-2AR3)
Drawing No. K006202_01_2021_K_A01, Climatic Test Report, Type Test Center Karlsruhe, dated 2021-06-23, Revision: 01
Drawing No. K006203_01_2023_M_A01, Mechanical Test report, Type Test Center Karlsruhe, dated 2023-01-23, Revision: 01
Drawing No. K006202_01_2023_E_A02, EMC Test report, Type Test Center Karlsruhe, dated 2023-09-29, Revision: 01
Drawing No. K6479_XRM334_High-Voltage-Test, HV Test report, Type Test Center Karlsruhe, dated 2022-04-01, Revision: 01
Drawing No. 25-E010418-BN-D01 Assessment Scalance XRM334, Assessment Report, dated 2025-04-04, Revision: 01

Terms of Validity:
This Product Design Assessment (PDA) Certificate remains valid until 19/Feb/2031 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

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STANDARDS

ABS Rules:
2026 Rules for Conditions of Classification: 1-1-4/7.7, 1-1-A3, 1-1-A4, which cover the following:
2026 Rules for Building and Classing Marine Vessels: 4-8-3/1.7, 4-8-3/1.11.1, 4-8-3/1.17, 4-9-9/13.1, 4-9-9/Table 1

2026 Rules for Conditions of Classification - Offshore Units and Structures: 1B-1-4/9.7, 1B-1-A2, 1-1-A3, which cover the following:
2026 Rules for Building and Classing Offshore Units: 4-3-1/11, 4-3-1/15, 4-3-1/17

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Tier: 2 - PDA Issued

National:
NA

International:
IACS UR E10 Rev.9

Government:
NA

EUMED:
NA

OTHERS:
NA