



TYPE APPROVAL CERTIFICATE

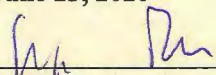
No. ELE064414XG

This is to certify that the product below is found to be in compliance with the applicable requirement of the RINA type approval system.

<i>Description</i>	Programmable logic controller
<i>Type</i>	SIMATIC NET modules OBT; BT; OSM; OLM; ESM; Communication module CM; Communication processor CP; Scalance S; Scalance X; Scalance W (IWLAN)
<i>Applicant</i>	SIEMENS AG - DF FA SE DS EMC GÜNTHER-SCHAROWSKY-STRASSE 21 91058 ERLANGEN GERMANY
<i>Manufacturer</i>	SIEMENS AG
<i>Place of manufacture</i>	ÖSTLICHE RHEINBRÜCKENSTR. 50 76187 KARLSRUHE GERMANY
<i>Reference standards</i>	Rules for the classification of ships.- Part C - Machinery, systems and fire protection. - Ch.3, Sect. 6, Table 1.

Issued in **Genoa** on **June 24, 2015**. This Certificate is valid until **June 23, 2020**




RINA Services S.p.A.
Giuseppe Russo

This certificate consists of this page and 1 enclosure

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SIMATIC NET modules OBT

BT

OSM

OLM

ESM

Communication module CM

Communication processor CP

Scalance S

Scalance X

Scalance W (IWLAN)

Industrial Ethernet OSM / ESM / OLM Network Management

OSM Optical Switch Modules : 6GK1 105-2A... ; 6GK1 105-4 A...

OLM Optical Link Modules : 6GK1 503...

ESM Electrical Switch Modules: 6GK1 105-3

The OSM /ESM allow three separate ways of using network management, all of which are possible at the same time:

- Web-Base Management (WBM) : operation and diagnostics using an Internet browser.
- SNMP Management: parameter assignment and diagnostics from one or more management stations
- A command interpreter (CLI- command-line interface) accessible both via the serial port of the OSM/ESM and using TELNET

With remote monitoring (RMON), the OSM/ESM provides a wide range of diagnostic functions for the network. Eg. recording network load trends and visualize them on a network management console or configuring the OSM / ESM to send alarm messages to notify faults and errors.

PROFIBUS Optical Bus Terminal

OBT: Optical Bus Terminal

It allows the attachment of single device without an integrated optical interface to the optical PROFIBUS-DP. The OBT has the following interfaces for attachment to PROFIBUS DP segment:

- Channel 1 is an electrical RS 485 interfaces.
- Channel 2 and channel 3 are optical interfaces

The OBT converts the RS-485 level signal received at channel 1 to an optical signal level that is then output via channel 2 and channel 3

The OBT supports all PROFIBUS transmission rates. Transmission rate is detected automatically

Bus terminal BT

6GK1500-0DA00	SIMATIC NET , RS 485 Bus Terminal for Profibus with fitted PG Interface, 1,5 m cable
6GK1500-0AA10	SIMATIC NET , 12 M Bus Terminal for profibus, transmission rate 9,6 Kbit/s to 12 Mbit/s, 1,5 m cable
6GK1500-0AB00	SIMATIC NET , RS 485 Bus Terminal for Profibus transmission rate 9,6 Kbit/s to 1500 Kbit/s, 3.0 m cable

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SCALANCE:

6GK5104-2, 6GK5204-2, 6GK5491, 6GK5496, 6GK5101, 6GK5106-1, 6GK5206-1, 6GK5492, 6GK5 202-2 IRT, 6GK5408, 6GK5108, 6GK5208, 6GK5414, 6GK5495, 6GK5 204 IRT

CM/CP for PLC 1500:

6GK7542: CM 1542-1^{1,3,5,8}

CM/CP for PLC 400:

6GK7442: CP 442-1 RNA^{1,3,6,9,11}; 6GK7443: CP 443-1 RNA^{1,3,6,9,11}

SCALANCE S:

6GK5602: S602^{1,2,4,7,10,12}; 6GK5612: S612^{1,2,4,7,10,12}; 6GK5623: S623^{1,2,4,7,10,12}; 6GK5627: S627^{1,2,4,7,10,12}

SCALANCE X:

6GK5408: XM408-4C; 6GK5408: XM408-4C (Layer 3); 6GK5416: XM416-4C^{2,4,7,10,12}; 6GK5416: XM416-4C (Layer 3)^{2,4,7,10,12}; 6GK5408: PE408PoE^{2,4,7,10,12}; 6GK5408: PE408^{2,4,7,10,12}; 6GK5408: XM408-8C^{2,4,7,10,12}; 6GK5408: XM408-8C (Layer 3)^{2,4,7,10,12}; 6GK5400: PE400-8SFP^{2,4,7,10,12}; 6GK5524: XR524-24RJ-8SFP; 6GK5524: XR524-24RJ-8SFP (Layer 3); 6GK5204: X204-2FM; 6GK5204: X204-2LD TS; 6GK5204: X204RNA EEC (HSR)^{1,7}; 6GK5204: X204RNA EEC^{1,7}; 6GK5204: X204RNA EEC (PRP/HSR)^{1,7}; 6GK5304: X304-2FE^{2,4,7,10,12}
Bridge&Deck Zone:
6GK5991: MM991-2FM (SC)
6GK5991: MM991-2P (SC RJ)^{2,7,10,12}
6GK5992: MM992-2VD (VARIABLE DISTANCE)^{2,7,10,12}

SCALANCE W (IWLAN):

Bridge & Deck Zone:

RAPN-W1-M12-E3: W788-1 M12^{2,4,7,10,12}; RAPN-W1-M12-E3: W788-1 M12 (USA)^{2,4,7,10,12}; RAPN-W1-M12-E3: W788-2 M12^{2,4,7,10,12}; RAPN-W1-M12-E3: W788-2 M12 (USA)^{2,4,7,10,12}; RAPN-W1-M12-E3: W748-1 M12^{2,4,7,10,12}; RAPN-W1-M12-E3: W748-1 M12 (USA)^{2,4,7,10,12}; RAPN-W1-M12-E3: W788C-2 M12^{2,4,7,10,12}; RAPN-W1-M12-E3: W788-2 M12 EEC^{2,4,7,10,12}; RAPN-W1-M12-E3: W788-2 M12 EEC (USA)^{2,4,7,10,12}; RAPN-W1-M12-E3: W788C-2 M12 EEC^{2,4,7,10,12}; RAPN-W1-RJ-E3: W788-1 RJ45^{2,4,7,10,12}; RAPN-W1-RJ-E3: W788-1 RJ45^{2,4,7,10,12}; RAPN-W1-RJ-E3: W788-2 RJ45^{2,4,7,10,12}; RAPN-W1-RJ-E3: W788-2 RJ45(USA)^{2,4,7,10,12}; RAPN-W1-RJ-E3: W748-1 RJ45^{2,4,7,10,12}; RAPN-W1-RJ-E3: W748-1 RJ45 (USA)^{2,4,7,10,12}; RAPN-W1-RJ-E3: W788C-2 RJ45^{2,4,7,10,12}; MSN-W1-RJ-E2: W734-1 RJ45^{2,4,7,10,12}; MSN-W1-RJ-E2: W734-1 RJ45 (USA)^{2,4,7,10,12}; MSN-W1-RJ-E2: W774-1 RJ45^{2,4,7,10,12}; MSN-W1-RJ-E2: W774-1 RJ45 (USA)^{2,4,7,10,12}; MSN-W1-M12-E2: W774-1 M12 EEC^{2,4,7,10,12}; MSN-W1-M12-E2: W774-1 M12 EEC (USA)^{2,4,7,10,12}
(Superscripted cyphers: See General Remarks)

Type Continuation:

Scalance X005: 6GK5005
Scalance X124: 6GK5 112, 6GK5 116, 6GK5 124
Scalance X224: 6GK5 212, 6GK5 216, 6GK5 224
Scalance X310: 6GK5 307, 6GK5 308, 6GK5 310

Security Modules 6KG5612 6KG5613 6GK5602

Power supply (PS) 6GK5791

Modular outlet 6GK1901

IE/PB Link 6GK1411

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Other Conditions:

Where CM1542-1, S602, S612, S623, S627 Scalance / Power Supply / Modular Outlet and IE / PB Link is used on the bridge or open deck, these modules are to be connected to the filter having the following characteristics:
 $I = 3A$, $C = 2 \times 0.473\mu F + 2 \times 4700pF$, $L = 4 \times 4,7 mH$

Security Modules 6GK5 612/ 613/ 602 are only to be used with Ferrit 24Vdc type Würt 74271222

Installation:

- OSM / ESM: Installation only with S7-300 profile rail or wall mounting
- Scalance 6GK5 414 / 491 / 492 / 495 / 496

Installation only with S7-300 profile rail or wall mounting possible.

- Modular Outlet: Installation with mounting rail 35 mm or wall mounting possible.
- Scalance 6GK5 104-2, 106-1 / 108, 204-2 / 206-1 / 208 / 202-2 IRT / 204 IRT / 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 35 mm
- Scalance 6GK5 408: Installation with S7-300 profile rail or mounting rail 35 mm

All Products of this certificate fulfil the EMC requirements for installation in general power distribution zones. MM991-2FM, MM991-2P, MM992-2VD and all SCALANCE W (IWLAN) products fulfil the EMC requirements for installation on bridge and deck zone.

Technical description:

Siemens Catalog n° ST 70: Components for Totally Integrated Automation (1999 -2000-2001-2003)

Interactive Catalog CA 01, Edition: 10/2009 Products for Automation and Drives

BA_SCALANCE-W7x8_76, BA_SCALANCE-W770-W730_76, BA_SCALANCE-X-200_76,
BA_SCALANCE-X-200RNA_76, BA_SCALANCE-X-300_76, BA_SCALANCE-XM400_76,
BAK_SCALANCE-MM900_76, GH_CM1542-1_76, GH_CP442-1-RNA_76, GH_CP443-1-RNA_0_de-DE,
IMH_SCALANCE-S_76_en-S6xx, Technische_Daten_XR524_Vorabversion_eng

General remark:

Equipment is to be installed and / or modified according to the test report requirements.

UL-File: ¹E85972, ²E115352

UL HAZ LOC File: ³E223122, ⁴E240480

FM Cert. No.: ⁵3047741, ⁶3002335, ⁷3021712

ATEX Cert.: ⁸DEKRA 12ATEX0240 X, ⁹Kema 03ATEX1225 X, ¹⁰Kema 07ATEX0145 X

IECEx Cert.: ¹¹IECEx DEK 14.0034X, ¹²IECEx DEK 14.0025X

This certificate annuls and replaces the previous one n° ELE45810CS005.

Genoa June 24, 2015

