



TYPE APPROVAL CERTIFICATE N. ELE45810CS005

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

Description Prog

Programmable logic controller

Type

SIMATIC NET modules

OBT, BT, OSM, OLM, ESM

Applicant

SIEMENS AG – I IA AS R & D ST-Type Test

Werner-von Siemens Str. 50, D-92224 Amberg

GERMANY

Manufacturer

SIEMENS AG – Karlsruhe

Östliche-Rheinbrückenstr. 50

76187 Karlsruhe GERMANY

Place of manufacture

Östliche-Rheinbrückenstr. 50

76187 Karlsruhe GERMANY

Reference standards

Rules for the Classification of Ships. Part C - Machinery, Systems and fire

protection. Ch. 3, Section 6, Table 1.

Issued in Genova on 23 July 2010. This certificate is valid until 23 July 2015

RINA

Francesco Fanciulli





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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

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

Other Conditions:

Where 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= $2x 0.473\mu F + 2x4700pF$, L=4x 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

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

General remark:

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

Genova 23 July 2010

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