DNV·GL

TYPE APPROVAL CERTIFICATE

This is to certify that the undernoted product(s) has/have been tested in accordance with the relevant requirements of the DNV GL Type Approval System.

Certificate No.	**40 141 - 01 HH**
Company	**Siemens AG** **Process Industries and Drives** **Oestliche Rheinbrückenstr. 50** **76187 Karlsruhe, GERMANY**
Product Description	**SIMATIC NET MODULE**
Type	**OBT, BT, OSM, ESM; OLM; CM; CP; S; X, W** **Scalance, Power Supply, Modular Outlet, IE/PB Link, Communication Module, Communication Processor**
Environmental Category	**C, EMC 2; EMC 1 *****
Technical Data / Range of Application	**Optical Bus Terminal OBT: 6GK1 500-3...** **Busterminal BT:** **6GK1 500-0AA.. connecting a Profibus - DP or Data transfer rate 9.6 Kbit/s to 12 Mbit/s** **6GK1 500-0AB.. Data transfer rate 9.6 Kbit/s to 1500 Kbit/s** **6GK1 500-0DA.. with programming device port** **OSM/ESM** **Supply Voltage: 2x24 V DC** **Optical Switch Modules OSM** **6GK1 105-2A...** **6GK1 105-4A...** **Electrical Switch Modules ESM** **6GK1 105-3...** **SW-Version (Reference to Product Masterlist):** **SCLANCE V3.x, V 4.x and 5.x** **CM 1542-1 PROFINET V1.x** **CP 442-1 RNA and CP 443-1 RNA V1.x.x**
Test Standard	**GL-Guidelines for the Performance of Type Approvals VI-7-2 Edition 2012 Regulations for the Use of Computers and Computer Systems.**
Documents	**CD-ROM : CA01Edition 04/2000 SE; Test reports: A&D AS RD ST Type Test - 0606 dated 23-06-2006; A&D AS E423-0102 dated 28-05-2001; 01049WZs dated 10-05-2001and A&D ATS 6/01-M178 dated 21-05-2001; A&D AS RD ST Type Test - 02/05 dated 15-03-2005; -11/2005**
Remarks	**This certificate is issued on the basis of GL Guidelines for the Performance of Type Approvals, Chapter 1 - Procedure (VI-7-1), Edition 2007.**

Valid until **2018-04-09**

File No. **I.B.08**

Hamburg, 2015-03-09

Type Approval Symbol GL

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Remarks:
**** Security Modules 6GK5 602, 612 and 613 are to be used with Ferrit 24 V DC Type: 742 712 22 (Würth) only.**
For using modules with * on the Bridge or on open deck a filter (I=3A, C=2x0,47µF+2x4700pF, L=4x4,7mH) has to be connected. **

Scalance*
6GK5 104-2; 6GK5 106-1, 6GK5 414, 6GK5 108, 6GK5 491, 6GK5 202-..., 6GK5 492,
6GK5 204-..., 6GK5 495, 6GK5 206-..., 6GK5 496, 6GK5 208, 6GK5 528-... , 6GK5 302-...,
6GK5 744 , 6GK5 306-..., 6GK5 784, 6GK5 320-..., 6GK5 788, 6GK5 324-...

CM/CP for PLC 1500:

6GK7542: CM 1542-1*	**(Note: 1,3,5,8)**

CM/CP for PLC 400:

6GK7442: CP 442-1 RNA	**(Note: 1,3,6,9,11)**
6GK7443: CP 443-1 RNA	**(Note: 1,3,6,9,11)**

SCALANCE S:

6GK5602: S602 *	**(Note: 1,2,4,7,10,12)**
6GK5612: S612 *	**(Note: 1,2,4,7,10,12)**
6GK5623: S623 *	**(Note: 1,2,4,7,10,12)**
6GK5627: S627*	**(Note: 1,2,4,7,10,12)**

SCALANCE X:

6GK5408: XM408-4C	
6GK5408: XM408-4C (Layer 3)	
6GK5416: XM416-4C	**(Note: 2,4,7,10,12)**
6GK5416: XM416-4C (Layer 3)	**(Note: 2,4,7,10,12)**
6GK5408: PE408PoE	**(Note: 2,4,7,10,12)**
6GK5408: PE408	**(Note: 2,4,7,10,12)**
6GK5408: XM408-8C	**(Note: 2,4,7,10,12)**
6GK5408: XM408-8C (Layer 3)	**(Note: 2,4,7,10,12)**
6GK5400: PE400-8SFP	**(Note: 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)	**(Note: 1,7)**
6GK5204: X204RNA EEC	**(Note: 1,7)**
6GK5204: X204RNA EEC (PRP/HSR)	**(Note: 1,7)**
6GK5304: X304-2FE	**(Note: 2,4,7,10, 12)**

Bridge & Deck Zone:

6GK5991: MM991-2FM (SC)* **	
6GK5991: MM991-2P (SC RJ)* **	**(Note: 2,7,10, 12)**
6GK5992: MM992-2VD (VARIABLE DISTANCE)* **	**(Note: 2,7,10, 12)**

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SCALANCE W (IWLAN):
Bridge & Deck Zone:

RAPN-W1-M12-E3: W788-1 M12* **	**(Note: 2,4,7,10,12)**
RAPN-W1-M12-E3: W788-1 M12 (USA) * **	**(Note: 2,4,7,10,12)**
RAPN-W1-M12-E3: W788-2 M12* **	**(Note: 2,4,7,10,12)**
RAPN-W1-M12-E3: W788-2 M12 (USA) * **	**(Note: 2,4,7,10,12)**
RAPN-W1-M12-E3: W748-1 M12* **	**(Note: 2,4,7,10,12)**
RAPN-W1-M12-E3: W748-1 M12 (USA) * **	**(Note: 2,4,7,10,12)**
RAPN-W1-M12-E3: W788C-2 M12* **	**(Note: 2,4,7,10,12)**
RAPN-W1-M12-E3: W788-2 M12 EEC* **	**(Note: 2,4,7,10,12)**
RAPN-W1-M12-E3: W788-2 M12 EEC (USA) * **	**(Note: 2,4,7,10,12)**
RAPN-W1-M12-E3: W788C-2 M12 EEC* **	**(Note: 2,4,7,10,12)**
RAPN-W1-RJ-E3: W788-1 RJ45* **	**(Note: 2,4,7,10,12)**
RAPN-W1-RJ-E3: W788-1 RJ45* **	**(Note: 2,4,7,10,12)**
RAPN-W1-RJ-E3: W788-2 RJ45* **	**(Note: 2,4,7,10,12)**
RAPN-W1-RJ-E3: W788-2 RJ45 (USA) * **	**(Note: 2,4,7,10,12)**
RAPN-W1-RJ-E3: W748-1 RJ45* **	**(Note: 2,4,7,10,12)**
RAPN-W1-RJ-E3: W748-1 RJ45 (USA) * **	**(Note: 2,4,7,10,12)**
RAPN-W1-RJ-E3: W788C-2 RJ45* **	**(Note: 2,4,7,10,12)**
MSN-W1-RJ-E2: W734-1 RJ45* **	**(Note: 2,4,7,10,12)**
MSN-W1-RJ-E2: W734-1 RJ45 (USA) * **	**(Note: 2,4,7,10,12)**
MSN-W1-RJ-E2: W774-1 RJ45* **	**(Note: 2,4,7,10,12)**
MSN-W1-RJ-E2: W774-1 RJ45 (USA) * **	**(Note: 2,4,7,10,12)**
MSN-W1-M12-E2: W774-1 M12 EEC* **	**(Note: 2,4,7,10,12)**
MSN-W1-M12-E2: W774-1 M12 EEC (USA) * **	**(Note: 2,4,7,10,12)**

Note:

UL-File:	**Note 1**	**E85972,**
	Note 2	**E115352**
UL HAZ LOC File:	**Note 3**	**E223122,**
	Note 4	**E240480**
FM Cert. No.:	**Note 5**	**3047741,**
	Note 6	**3002335,**
	Note 7	**3021712**
ATEX Cert.:	**Note 8**	**DEKRA 12ATEX0240 X,**
	Note 9	**Kema 03ATEX1225 X,**
	Note 10	**Kema 07ATEX0145 X**
IECEx Cert.:	**Note 11**	**IECEx DEK 14.0034X,**
	Note 12	**IECEx DEK 14.0025X**

SCALANCE
6GK5 005; 6GK5 101; 6GK5 112; 6GK5 116; 6GK5 124; 6GK5 212; 6GK5 216; 6GK5 224; 6GK5 307; 6GK5 308; 6GK5 310; 6GK5 408
Module: 6GK5 991-...; 6GK5 992-...; 6GK5 993-...
CSM Module: 6GK7 277-... ; 6GK7 377-...
S7 1200 CM: 6GK7 242-...; 6GK7 243-..

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OLM
6GK1 503
Security Module**
6GK5 612; 6GK5 613; 6GK5 602
Power Supply*
6GK5 791
Modular Outlet*
6GK1 901
IE/PB Link*
6GK1 411

Installation:
OSM / ESM and Scalance 6GK5 744 / 784/ 786/ 788/ 414/ 491/ 492/ 495/ 496 :
Montage with S7-300 profile rail or wall mounting
Modular Outlet : Montage with mounting rail 35 mm or wall mounting
Scalance 6GK5 104-2, 106-1, 108, 204-2, 206-1, 208, 202-2 and 204 IRT, 005, 101, 112, 116, 124, 212, 216, 224, 307, 308, 310 and Power Supply: Montage with S7-300 profile rail, mounting rail 35 mm or wall mounting
IE/PB Link : Montage with S7-300 profile rail
OLM : Montage with mounting rail 35 mm
Scalance 6GK5 408 : Montage with S7-300 profile rail or mounting rail 35 mm

Additional technical documentation:
2008-K035-HV-01 to 05 dated 26-09-2008; K002935_01_2007_M_A01 dated 06-12-2007; K003381_01_2009_M_A01 dated 17-08-2009; K004033_02_2011_K_A01 dated 20-12-2011; K004033_02_2012_K_D01 dated 24-02-2012; K002935_01_2007_E_A01 dated 25-10-2007; K004033_01_2011_E_B01 dated 21-09-2011; K004033_01_2012_E_E01 dated 15-12-2011
Manuals:
S7-300 Compact Switch Module CSM 377 dated Edition 11/07 A2B00073499E
Industrial Ethernet Switches SCALANCE X-300 Operating Instructions, dated 10-2010, A5E01113043-10
BA_SCALANCE-W7x8_76: A5E03678333-06 dated 07/2014,
BA_SCALANCE-W770-W730_76: C79000-G8976-C325-01 dated 10/2013,
BA_SCALANCE-X-200_76: C79000-G8976-C284-02 dated 02/2013,
BA_SCALANCE-X-200RNA_76: C79000-G8976-C342-01 dated 08/2013,
BA_SCALANCE-X-300_76: A5E01113043-16 dated 10/2013,
BA_SCALANCE-XM400_76: C79000-G8976-C332-01 and C79000-G8976-C306-01 dated 08/2013
SCALANCE XR-500: A5E03275845-05 dated 05/2014
BAK_SCALANCE-MM900_76: A5E02630805-08 dated 10/2013,
GH_CM1542-1_76: C79000-G8976-C355-00 dated 02/2014,
GH_CP442-1-RNA_76: C79000-G8976-C318 dated 07/2013,
GH_CP443-1-RNA: C79000-G8976-C299 dated 07/2013,
SCALANCE S V4: C79000-G8976-C266-02 dated 09/2013

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Additional Test Reports:

**K003179_02_2009_M_A01 dated 05-02-09 ; K003796_01_2011_M_A01 dated 25-05-12;
K003972_02_2011_M_A02 dated 18-11-14; K004005_01_2011_M_B01 dated 09-12-11;
K004267_02_2012_M_A01 dated 30-11-12; K004307_02_2013_M_A01 dated 27-03-13;
K004363_02_2013_M_B01 dated 06-09-13; K004394_01_2013_M_A01 dated 04-06-13;
K004423_02_2013_M_B01 dated 27-08-13; K004423_02_2013_M_B02 dated 18-11-14;
K004554_01_2013_M_A01 dated 19-11-13; K004561_02_2013_M_A01 dated 19-12-13;
K004623_01_2014_M_A02 dated 03-07-14; K004623_01_2014_M_B02 dated 03-07-14;
K004638_01_2014_M_A02 dated 03-06-14; K003972_01_2012_M_B01 dated 02-08-12;
K003972_01_2014_K_A01 dated 17-06-14; K004267_03_2013_K_A01 dated 04-12-13;
K004307_02_2013_K_A02 dated 31-10-2013; K004363_02_2013_K_B01 dated 05-12-2013
K004394_01_2014_K_A01 dated 05-06-2014; K004423_04_2013_K_B01 dated 27-11-2014
K004559_01_2014_K_A01 dated 30-06-2014; K004561_02_2013_K_A01 dated 16-12-2013
K004591_01_2014_K_A02 dated 06-11-2014; K004638_02_2014_K_A01 dated 24-03-2014
K004688_01_2014_K_A01 dated 03-07-2014; K004759_01_2014_K_A01 dated 29-07-2014
K004767_02_2014_K_A01 dated 30-09-2014; K004767_02_2014_K_B01 dated 30-09-2014
K004771_01_2014_K_A01 dated 26-06-2014; K004829_01_2014_K_B01 dated 29-09-2014 to
K004829_01_2014_K_O01 dated 22-10-2014; K004394_01_2013_K_A01 14-11-2013
12-E005046-BM-A01 dated 12-12-2011; K004394_01_2013_E_C01 dated 04-04-2013
K003972_01_2011_E_A03 dated 26-03-2012; K003972_01_2012_E_A01 dated 02-01-2012
K004394_01_2013_E_A01 dated 04-04-2013; K003179_02_2009_E_A01 dated 27-01-2009
3797_01_2011_E_C01 dated 18-01-2012; K004307_02_2013_E_B01 dated 07-2-2013
K004363_02_2013_E_A01 dated 12-09-2013; K004375_01_2013_E_A01 dated 10-12-2013
K004423_032_2015_E_A02 dated 17-11-2014; K004559_01_2014_E_A01 dated 05-11-2013
K004561_02_2014_E_A01 dated 03-01-2014; K004591_01_2014_E_A01 dated 28-04-2014
K004638_01_2014_E_A02 dated 14-04-2014; K004688_01_2014_E_A01 dated 04-06-2014
K004771_01_2014_E_C01 dated 06-06-2014; K004791_01_2014_E_A01 dated 05-08-2014
K004791_01_2014_E_B01 dated 04-08-2014
K004811_01_2014_E_A01 dated to K004811_01_2014_E_R01 dated 08-08-2014
K004811_01_2015_E_R01 dated 22-10-2014; 6GK5204-0BS00-3LA3 dated 07-05-2014
6GK5204-2BB11 dated 14-10-2014; 6GK5306-1BF00-2AA3 dated 15-05-2014
6GK5408-0PA00-8AP2 dated 09-05-2014; 6GK5416-4GS00-2AM2 dated 07-05-2014
6GK5623-0BA10 dated 26-03-2012; 6GK5627-2BA10 dated 28-10-2013
6GK5774-1FX00-0AA0 dated 19-12-2013; 6GK5991-2AB01-8AA0 dated 12-05-2014
6GK5991-2AH00-8AA0 dated 12-05-2014; 6GK5992-2VA00-8AA0 dated 30-04-2014
6GK7442-1RX00-0XE0 dated 14-05-2014; 6GK7443-1RX00-0XE0 dated 14-05-2014
6GK7542-1AX00 dated 20-01-2014; K004638-03 dated 10-04-2014
15-E006008-BM-A01/-B01/-C01 Product Masterlist dated 03-12-2014 and cross reference to Notes**

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