MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Reference package for procurement and maintenance review

SIEMENS

6GK5746-1ST00-2AA6

INDUSTRIAL WIRELESS LAN CLIENT

Used with the applicable SCALANCE W746-1PRO configuration.

REFERENCE PACKAGE

OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: Siemens SCALANCE W-700 configuration manual C79000-G8976-C238-04, W746 hardware identification; Siemens ATEX certificate 07ATEX0145X, Issue 75

1.2 Type designations

Abbreviations used

The information in the manuals for the SCALANCE W-700 product family often applies to more than one product variant. In such situations, the designations of the products are shortened to avoid having to list all the type designations. The following table shows how the abbreviations relate to the product variants.

Product group	The designation . . . stands for . . .	Product name
Ethernet client modules (IP30, cabinet installation)	W74x-1	W744-1 W746-1 W747-1
Ethernet client modules (IP65, installed outside a cabinet)	W74x-1PRO/RR	W744-1PRO W746-1PRO W747-1RR
All Ethernet client modules SCALANCE W	W74x	W744-1 W746-1 W747-1 W744-1PRO W746-1PRO W747-1RR
Access points (IP30, cabinet installation)	W784-1xx	W784-1 W784-1RR
Access points (IP65, installed outside a cabinet, extreme climatic requirements)	W786-xPRO/RR	W786-1PRO W786-2PRO W786-3PRO W786-2RR
Access points (IP65, installed outside a cabinet)	W788-xPRO/RR	W788-1PRO W788-2PRO W788-1RR W788-2RR
Access points with the "RR" range of functions	W78x-xRR	W784-1RR W786-2RR W788-1RR W788-2RR

5.2 Changing from MLFB 6GK57xx-xSx00-2Ax6 to MLFB 6GK57xx-xAA60-xAx0

New hardware

The hardware redesign of the Scalance W components with MLFB 6GK57xx-xSx00-2Ax6 with the introduction of new MLFBs was necessary to equip the devices with a power supply conforming with Power over Ethernet (PoE) to IEEE 802.3af. Following the redesign, the devices also have a new IWLAN wireless module.

The following table shows the order numbers of the devices before and after the hardware redesign:

Previous MLFB …	… is replaced by MLFB (redesigned hardware)
6GK5744-1ST00-2AA6	6GK5744-1AA60-2AA0
6GK5744-1ST00-2AB6	6GK5744-1AA60-2AB0
6GK5746-1ST00-2AA6	6GK5746-1AA60-4AA0
6GK5746-1ST00-2AB6	6GK5746-1AA60-4AB0
6GK5746-1ST00-2BA6	6GK5746-1AA60-4BA0
6GK5747-1SR00-2AA6	6GK5747-1AA60-6AA0
6GK5747-1SR00-2AB6	6GK5747-1AA60-6AB0
6GK5788-1ST00-2AA6	6GK5788-1AA60-2AA0
6GK5788-1ST00-2AB6	6GK5788-1AA60-2AB0
6GK5788-1SR00-2AA6	6GK5788-1AA60-6AA0
6GK5788-1SR00-2AB6	6GK5788-1AA60-6AB0
6GK5788-2ST00-2AA6	6GK5788-2AA60-2AA0
6GK5788-2ST00-2AB6	6GK5788-2AA60-2AB0
6GK5788-2SR00-2AA6	6GK5788-2AA60-6AA0
6GK5788-2SR00-2AB6	6GK5788-2AA60-6AB0

CERTIFICATE

(1) Type Examination

(2) **Product intended for use in potentially explosive atmospheres - Directive 2014/34/EU**

(3) Type Examination Certificate Number: **KEMA 07ATEX0145 X** Issue Number: **75**

(4) Product: **SIMATIC Network Components Type RAP.-W … , Type LAP.-W … , Type EAP.-W ..., Type 6GK. … , Type W786 … and Type WS-AP ...**

(5) Manufacturer: **Siemens AG**

(6) Address: **Östliche Rheinbrückenstraße 50, 76187 Karlsruhe, Germany**

(7) This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) DEKRA Certification B.V., certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014.

The examination and test results are recorded in confidential test report no. 219472500.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0 : 2012 + A11 : 2013 **EN 60079-15 : 2010**

(10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

(11) This Type Examination Certificate relates only to the design and construction of the specified product and not to the manufacturing process and its monitoring.

(12) The marking of the product shall include the following:



II 3 G **Ex nA IIC T6** or **T5 Gc**

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Date of certification: 6 July 2016

DEKRA Certification B.V.

R. Schuller
Certification Manager

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(13) # SCHEDULE

(14) **to Type Examination Certificate KEMA 07ATEX0145 X** Issue No. **75**

(15) **Description**

SIMATIC Network Components Type RAP.-W ..., Type LAP.-W …, Type EAP.-W ..., Type 6GK. …, Type W786 … and Type WS-AP ...for use in SIMATIC Programmable Controller Systems.

The enclosure of SIMATIC Network Components Type W786 … provides a degree of protection of at least IP54 in accordance with EN 60529.

The type code, the ambient temperature range and the temperature class of the modules shall be taken from **table 1**.

Electrical data

The electrical data of the supply and the input and output circuits shall be taken from **table 1**.

Installation instructions

The instructions provided with the product shall be followed in detail to assure safe operation.

(16) **Report Number**

No. 219472500.

(17) **Specific conditions of use**

1. The modules shall be installed in a suitable enclosure providing a degree of protection of at least IP54 according to EN 60079-15, taking into account the environmental conditions under which the equipment will be used.

2. Provisions shall be made to prevent the rated voltage from being exceeded by transient disturbances of more than 119 V.

(18) **Essential Health and Safety Requirements**

Covered by the standards listed at item (9).

(19) **Test documentation**

As listed in Report No. 219472500.

(20) **Certificate history**

Issue 0 -	210719200	Initial certificate
Issue 2 …73 -		Revised construction and addition of modules
Issue 74 -	219423400	Addition of modules
Issue 75 -	219472500	Addition of a module

(13) **SCHEDULE**

(14) **to Type Examination Certificate KEMA 07ATEX0145 X** Issue No. **75**

Table 1

Description	Type/MLFB No.	Temp. code	Ambient Range	Technical Data	Supply Volt.
SIMATIC NET Power Supplies					
PS791-2DC	6GK5791-2DC00-a	T4	-40... +70°C	12V / max.1400mA ... 24V / max.700mA	12V ... 24V
PS791-2AC	6GK5791-2AC00-a	T4	-40... +60°C	100V / max.2640mA ... 240V / max.170mA	100V ... 240V
SCALANCE Modules					
Scalance W7xx-2	RAP-W2-RJ-E2	T4	-20... +60°C	24V / max.300mA 48V / max.150mA	24V 48V
Scalance W7xx-1	RAP-W1-RJ-E1	T4	-20... +60°C	24V / max.300mA 48V / max.150mA	24V 48V
Scalance W7xx-1	LAP-W1-RJ-E1	T4	-20... +60°C	24V / max.250mA 48V / max.130mA	24V 48V
Scalance W7x8-1	RAPN-W1-RJ-E3	T4	-20... +60°C	24V / max. 650 mA 48V / max. 320 mA	24 V
Scalance W7x8-1	RAPN-W1-RJ-E3	T4	-20... +60°C	24V / max. 650 mA 48V / max. 320 mA	24 V
Scalance W7x8-2	RAPN-W2-RJ-E3	T4	-20... +60°C	24V / max. 650 mA 48V / max. 320 mA	24 V
Scalance W7x8-1	RAPN-W1-M12-E3	T4	-20... +60°C	24V / max. 650 mA 48V / max. 320 mA	24 V
Scalance W7x8-2	RAPN-W2-M12-E3	T4	-20... +60°C	24V / max. 650 mA 48V / max. 320 mA	24 V
Scalance W788-2Pro	6GK5788-2ST00-2AA6	T4	-20... +60°C	24V / max.300 mA	24 V
Scalance W788-2Pro US	6GK5788-2ST00-2AB6	T4	-20... +60°C	24V / max.300 mA	24 V
Scalance W788-1Pro	6GK5788-1ST00-2AA6	T4	-20... +60°C	24V / max.300 mA	24 V
Scalance W788-1Pro US	6GK5788-1ST00-2AB6	T4	-20... +60°C	24V / max.300 mA	24 V
Scalance W744-1Pro	6GK5744-1ST00-2AA6	T4	-20... +60°C	24V / max.300 mA	24 V
Scalance W744-1Pro US	6GK5744-1ST00-2AB6	T4	-20... +60°C	24V / max.300 mA	24 V
Scalance W746-1Pro	6GK5746-1ST00-2AA6	T4	-20... +60°C	24V / max.300 mA	24 V
Scalance W746-1Pro US	6GK5746-1ST00-2AB6	T4	-20... +60°C	24V / max.300 mA	24 V
Scalance W747-1RR	6GK5747-1SR00-2AA6	T4	-20... +60°C	24V / max.300 mA	24 V
Scalance W7xx-1 RJ	ELN-W1-RJ-E1	T4	0... +60°C	24V / max. 150 mA	24 V
Scalance W7x4-1	MSN-W1-RJ-E2	T4	-30... +70°C	24V / max. 250 mA 48V / max. 125 mA	24 V
Scalance W774-1	MSN-W1-M12-E2	T4	-30... +70°C	24V / max. 250 mA 48V / max. 125 mA	24 V
Scalance W747-1RR US	6GK5747-1SR00-2AB6	T4	-20... +60°C	24V / max.300 mA	24 V
Scalance W786-1	EAPN-W1-RJ-E3	T4	-40... +60°C	24V / max. 650 mA 48V / max. 320 mA 12-24V / max. 1400 mA 100-240V / max. 264 mA	24V 48V 24V 240V
Scalance W786-2	EAPN-W2-RJ-E3	T4	-40... +60°C	24V / max. 650 mA 48V / max. 320 mA 12-24V / max. 1400 mA 100-240V / max. 264 mA	24V 48V 24V 240V
Scalance W786-2	EAPN-W2-RJ-I3	T4	-40... +60°C	24V / max. 650 mA 48V / max. 320 mA 12-24V / max. 1400 mA 100-240V / max. 264 mA	24V 48V 24V 240V
Scalance W786-2	EAPN-W2-SFP-E3	T4	-40... +60°C	24V / max. 650 mA 12-24V / max. 1400 mA 100-240V / max. 264 mA	24V 24V 240V
Scalance W786-2 ETS	WS-AP3765e	T4	-40... +60°C	24V / max. 650 mA 48V / max. 320 mA 12-24V / max. 1400 mA 100-240V / max. 264 mA	24V 48V 24V 240V
Scalance W786-2 ETS	WS-AP3767e	T4	-40... +60°C	24V / max. 650 mA 48V / max. 320 mA 12-24V / max. 1400 mA 100-240V / max. 264 mA	24V 48V 24V 240V