

SIEMENS



Brochure

Edition  
11/2014

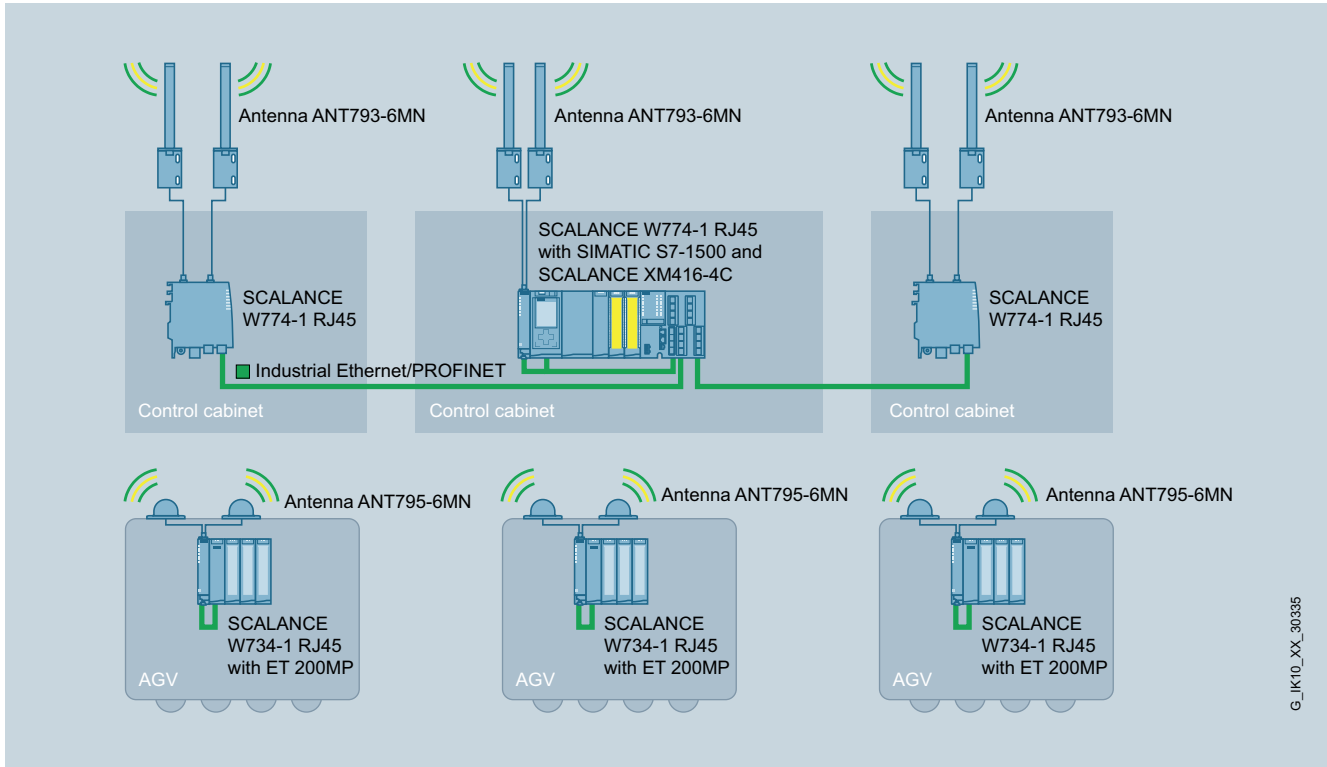
SIMATIC NET

# SCALANCE W770 and W730 – A perfect team with SIMATIC!

Transfer data wirelessly from the control cabinet – in perfect interaction with SIMATIC S7-1500. The SCALANCE W770 Access Points and W730 Client Modules in the SIMATIC design reliably implement wireless communication between, for example, a SIMATIC S7-1500 controller and a SIMATIC ET 200MP.

This not only enables simple networking of machines, but also helps to deliver radio coverage to large areas with a data rate of up to 300 Mbit/s. And the KEY-PLUGs W700 iFeatures ensure secure real-time data transmission via PROFINET with PROFIsafe.

Automatic guided vehicles (AGV) demand increased safety and real-time capability. SCALANCE W products are ideally suited to this purpose.



Application example: Automatic guided vehicles (AGV), automated with SCALANCE W734-1 RJ45 and W774-1 RJ45

These compact IWLAN products permit applications to be implemented for which IWLAN functionality of the SIMATIC S7-1500 or other controllers is required.

The KEY-PLUGs W700 iFeatures enable additional functions to meet special radio requirements in industry, such as real-time communication via IWLAN. For reliable coverage of larger wireless ranges, the devices offer greater reliability thanks to 2x2:2 MIMO antenna technology according to the IEEE 802.11n standard.

The SCALANCE W series is completed with an extensive range of antennas.

#### Advantages

- iPCF function for necessary deterministic behavior and fast roaming in PROFINET IO applications
- Wireless transmission of PROFINET with PROFI-safe, e.g. for wireless EMERGENCY OFF function
- By means of MIMO, it is also possible to communicate reliably by radio, even in harsh environments
- Various installation options (wall or cabinet-mounting) because the LEDs are visible from different angles

Wireless standard	IEEE 802.11a/b/g/n
Supported frequencies	2.4 and 5 GHz
Max. bandwidth	300 Mbit/s (2x2:2 MIMO)
Antenna connectors	2x R-SMA connector
LAN interfaces	2x RJ45, or 2x M12
Temperature range	-20 °C ... +60 °C, or -30 ... +65°C (SCALANCE W774-1 M12 EEC)
Degree of protection	IP30
Enclosure material	Metal
Current	24 V DC/ PoE according to IEEE 802.3at Type 1
Installation	Wall, S7 mounting rail, 35 mm standard mounting rail

### Product versions

- SCALANCE W774-1 RJ45  
Access Point for use in the control cabinet
- SCALANCE W734-1 RJ45  
Client Module for use in the control cabinet
- Access Point SCALANCE W774-1 M12 EEC for the control cabinet and for indoor use

### Accessories

- KEY-PLUG W780 iFeatures  
for enabling additional functions in access points
- KEY-PLUG W740 iFeatures  
for enabling additional functions in client modules



Access Point SCALANCE W774-1 RJ45

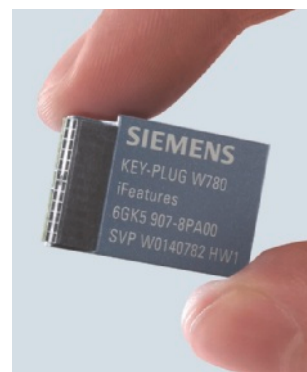


Access Point SCALANCE W774-1 M12 EEC

Apart from the Web-Based Management (WBM) interface, mobile web pages of the SCALANCE W are available for diagnostic purposes; these have been optimized for use with mobile devices such as smart phones or tablet PCs.



SCALANCE W700 mobile website



KEY-PLUG W700 iFeatures

Find out more:  
[siemens.com/iwlan](http://www.siemens.com/iwlan)



## Industrial Security

Siemens provides automation and drive products with industrial security functions that support the secure operation of plants or machines. They are an important component in a holistic industrial security concept. With this in mind, our products undergo continuous development. We therefore recommend that you keep yourself informed with respect to our product updates. Please find further information and newsletters on this subject at: <http://support.automation.siemens.com>

To ensure the secure operation of a plant or machine it is also necessary to take suitable preventive action (e.g. cell protection concept) and to integrate the automation and drive components into a state-of-the-art holistic industrial security concept for the entire plant or machine. Any third-party products that may be in use must also be taken into account. Please find further information at: <http://www.siemens.com/industrialsecurity>

## Get more information

**Making the most of air**  
Industrial Wireless LAN –  
flexible, plant-wide wireless infrastructure:  
[www.siemens.com/iwlan](http://www.siemens.com/iwlan)

IWLAN in the TIA Selection Tool:  
[www.siemens.com/tia-selection-tool](http://www.siemens.com/tia-selection-tool)

Scan the QR code  
with the QR reader  
of your cell phone.



Siemens AG  
Process Industries and Drives  
Process Automation  
Postfach 4848  
90026 NÜRNBERG  
GERMANY

Subject to change without prior notice  
Article No. 6ZB5530-1BT02-0BA1  
DR.PN.PA.15.XXBR.95.04 / Dispo 26000  
BR 1114 2. WÜ 4 En  
Printed in Germany  
© Siemens AG 2014

The information provided in this brochure contains merely general descriptions or characteristics of performance which in case of actual use do not always apply as described or which may change as a result of further development of the products. An obligation to provide the respective characteristics shall only exist if expressly agreed in the terms of contract. Availability and technical specifications are subject to change without notice.  
All product designations may be trademarks or product names of Siemens AG or supplier companies whose use by third parties for their own purposes could violate the rights of the owners.