

Application Sheet

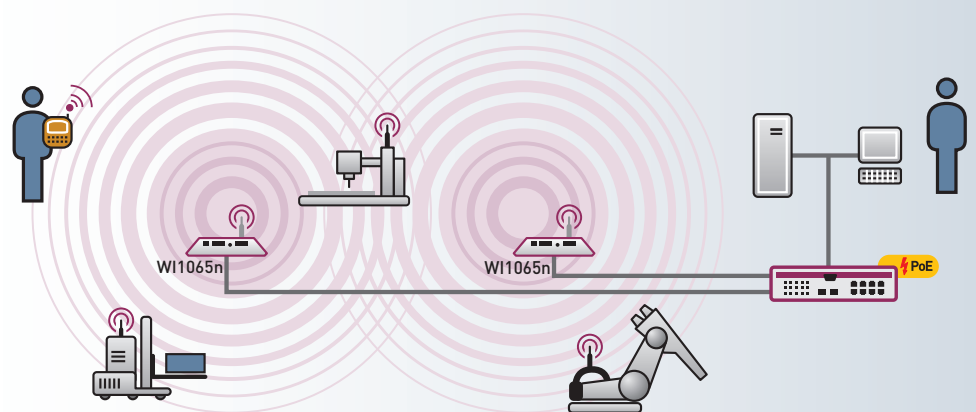
WLAN in Warehouses and Production Environments

The complete industrial processing and logistics chain offers many options of application for WLAN systems, which increase efficiency and productivity and lead to a higher flexibility. The signal transfer from and to fabrication robots via WLAN connections permits flexible process control, which can be performed by the central office and/or mobile terminals of the staff on site.

Especially in industrial environments, however, heat and cold, dust, dirt, or vibrations often affect the functioning of the WLAN infrastructure, thus causing outages and increasing costs.

Advantages:

- ▶ Components available in protection classes IP65 and IP40
- ▶ Power over Ethernet according to 802.3 af
- ▶ Compatible with all wireless barcode reader, wireless fork lifter terminals and PDAs
- ▶ The Fast Roaming functionality enables a radio connection without interruption also at high fork lifter speeds.
- ▶ Extended temperature range with IP40 / IP65 (-25°C to +65°C) and vibration protection
- ▶ Radio modules can be configured independently as bridge or access point
- ▶ High security level for data communication thanks to integrated encryption
- ▶ SFP slot for optical fibre cabling
- ▶ Radio modules can send and receive independently in the 2.4 GHz or 5 GHz band
- ▶ WiFi certificate guarantees the compatibility and the observation of security standards.



Solution:

With the bintec WI series access points designed especially for industrial application and a broad antenna portfolio, Teldat offers the solution ensuring a comprehensive and trouble-free application in nearly all situations.

The access points are available in the protection classes IP40 (protection against foreign particles larger than 1 mm) and IP65 (no intrusion of dust and protection against water jet impact). They can be supplied with power using a power supply unit or via PoE directly from the LAN interface. The devices support roaming, which means that the user can move from one radio cell to another without interrupting the data stream. The industrial access points are equipped with an SFP slot for additional fiber interfaces, ensuring that data transmission is not affected by magnetic fields caused by high-voltage current.

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WLAN ACCESS POINTS:

bintec WI-n Serie

802.11n industrial access point configurable as AP, WDS repeater, WLAN client, bridge

- ▶ Dual band 2.4 / 5 GHz, optionally with either one or two wireless modules
- ▶ Extended temperature range -25°C to +65°C
- ▶ Power over Ethernet
- ▶ SFP slot

bintec Wlx040n

Flexible Indoor Access Points for industrial application scenarios with protection class IP40

bintec Wlx065n

Flexible Outdoor Access Points for industrial application scenarios with protection class IP65



Model	bintec WI1040n	bintec WI2040n	bintec WI1065n	bintec WI2065n
Art. no.	5010590006	5010590007	5010590013	5010590014
WiFi standard	a/b/g/h/n	a/b/g/h/n	a/b/g/h/n	a/b/g/h/n
Number of radio modules	1	2	1	2
IP protection class	IP40	IP40	IP65	IP65

WLAN CLIENT:

Wireless Client for industry applications

- ▶ bintec WI-Client (Art. no. 5510000169)
- ▶ DIN-Rail and wall mounting
- ▶ Schutzklasse IP40
- ▶ Dual Band Radio 2.4 / 5 GHz (802.11abgh)
- ▶ Ethernet Client interface
- ▶ V.24 interface for data transmission via WLAN



ANTENNAS:

Omni directional antenna	ANT-Omni-4-dual	ANT-Omni-5-2G-1,2m	ANT-Omni-8-Dual
Art. no.	600529	600518	5510000234
Dual Band	2,4 and 5 GHz	2,4 GHz	2,4 and 5 GHz
Outdoor	-	•	•
Antenna type	hemisphere	baton	baton



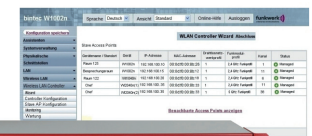
WLAN MANAGEMENT SYSTEM:

bintec WLAN Controller

The WLAN Controller automates administrative tasks, which are necessary for a smooth operation of WLAN infrastructures.

- ▶ Installation of a wireless network in 30 minutes without special WLAN know-how
- ▶ A wizard leads in only 5 steps through the installation.

- ▶ Designed for installations from 2 up to 150 Access Points (APs)
- ▶ Up to 6 APs no dedicated hardware is necessary, the license runs on a master AP.
- ▶ For 7 up to 72 APs is needed a bintec router as dedicated controller hardware (e. g. R1202).
- ▶ For 73 - 150 APs a RXL12500 is required.
- ▶ Integrated HotSpot functionality (optional)



- ▶ Roaming-capable wireless network, able for VoWLAN telephony - 'Voice Ready'.

SUPPLEMENTARY COMPONENTS:

Modul SFP-100

- ▶ SFP-100 Modul Fiber extension for WI-Series; multimode, extended temperature range



DIN Rail Adaptor WI-40 Series

- ▶ DIN Rail adaptor for WI-40 Series

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