

Application Sheet

Wireless LAN in Office Environments

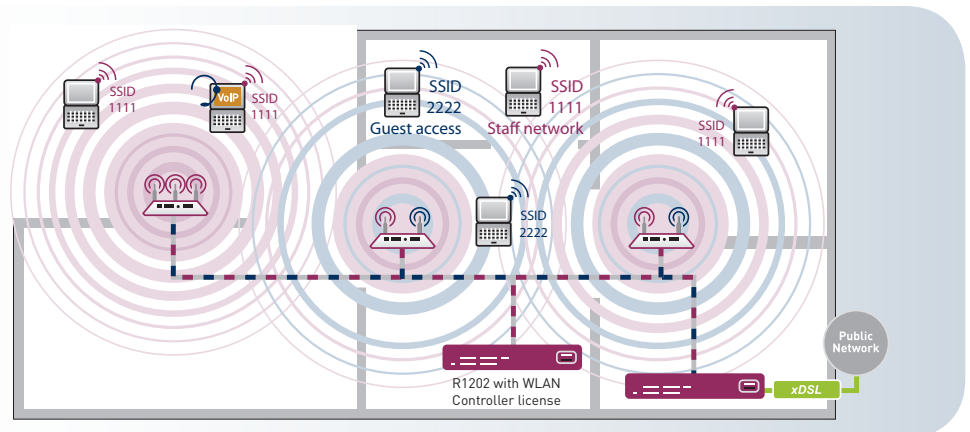
Laptops are increasingly used as a central tool in professional environments. The thus achieved freedom to access company data, e-mails, or the Internet also from meeting rooms or mobile workstations is restricted by Ethernet cabling.

The adaptation of networks to location changes causes high effort and high costs. In heritage-protected buildings, the installation of cables is often not permitted. Accordingly, it is difficult to integrate mobile users or guests.

A WLAN solution grants employees wireless access to the enterprise resources from everywhere in the building. Moreover, security concerns regarding WLAN are a thing of the past. The WLAN technology has been developed further and today's encryption methods and competent installation have eliminated all security gaps.

Benefits / Highlights:

- ▶ Highest security level attained for data transfer through WPA2 or 802.1x RADIUS authentication
- ▶ Secure handling of individual user groups thanks to multi-SSID and VLAN
- ▶ Up to 8 VLANs available due to 8 SSIDs
- ▶ WLAN products can be used at 2.5 GHz or 5 GHz
- ▶ Secure log-on of guests and visitors to the corporate network with access restrictions
- ▶ Compatible with PDAs, Apple Iphone, ...
- ▶ Access points also available as dual access point for simultaneous operation in 2.4 and 5 GHz band
- ▶ Optional: bintec WLAN Controller for automatic configuration, maintenance and controlling
- ▶ Firmware updates free of charge
- ▶ PoE-capable according to 802.3 af
- ▶ WiFi certificate guarantees the compatibility and the observation of security standards.



Flexible office workplace design with WLAN (the figure shows an office floor with external warehouse)

Solution:

The WLAN solution from Teldat grants employees wireless access to the enterprise resources from everywhere in the building. Field service staff is flexible on their office day and can access the company network from various locations in the office.

In addition, it is possible to provide specific guests and visitors with Internet access. They obtain a guest access via a multi-SSID (see SSID 2222 in the figure) and can surf in the Internet over the same WLAN network without getting access to your confidential company data.

WLAN solutions are suitable for home office staff and small companies, but also for medium-scale and large companies. The optional WLAN management system (WLAN Controller) permits the commissioning, configuration, monitoring, and maintenance of the access points.

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WLAN ACCESS POINTS:

bintec W1002n

- ▶ One radio module (2.4 GHz and 5 GHz) per access point with up to 300 Mbps
- ▶ Up to 8 virtual access points per radio module (multi-SSID)
- ▶ Voice Ready for Voice over WLAN applications
- ▶ Usage of offset antennas
- ▶ IEEE 802.11a(h)/b/g/n
- ▶ PoE-capable (IEEE 802.3af)



bintec W1x040 / W1x065

- ▶ Like W1002n, in addition:
- ▶ Up to 2 radio modules (2.4 GHz and 5 GHz) per access point
- ▶ Protection class IP40 or IP65 available
- ▶ Wireless connection of serial devices
- ▶ Extended temperature range (-25°C to +65°C)
- ▶ Up to 2 physically independent access point/bridge links, depending on the device variant



- ▶ Theft protection as add-on available
- ▶ SFP slot for a SFP module to connect far-off access points via fibre glass (LWL) to the network infrastructure

Model	bintec W1002n	bintec W11040n	bintec W12040n	bintec W11065n	bintec W12065n
Art. no.	5510000165	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	a/b/g/h/n
Number of radio modules	1	1	2	1	2
IP protection class	-	IP40	IP40	IP65	IP65

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:

packetalarm UTM-Serie

Protecting the local LAN and WLAN against attacks from the Internet. Protection against viruses and spam mails directly at the gateway. Content filtering for unauthorized access to specific pages in the Internet.



Indoor Mimo Ceiling Antenna

This antenna is used for 2x3 Mimo 802.11n Access Points (e.g. W1002n) as inconspicuous ceiling antenna.

- ▶ ANT-Ceiling-Mimo-2G
- ▶ 2.4 – 2.5 GHz
- ▶ 9 - 10 dBi gain
- ▶ IP20 Indoor



Teldat HotSpot Solution:

If you provide your customers with a public WLAN HotSpot for Internet access, either free of charge or as fee based service, this constitutes an attractive service offer for your customers.

- ▶ Efficient, fast, and conforming to the law
- ▶ Configuration as free of charge or as fee based HotSpot



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