

## WI-Client

- o WLAN Client Adapter for industrial applications
- o Ethernet 10/100 Mbps interface
- o Enables wireless connection of RS232 devices
- o Supports 2.4 GHz and 5 GHz according 802.11abgh
- o DIN Rail Mounting and Wall Mounting included
- o Small form factor (105x125x40 mm)
- o Wide operation temperature range

The bintec WI-Client is intended to connect devices with ethernet or serial interfaces to a Wireless Local Area Network (WLAN) corresponding to the 802.11 a/b/g/h standard. Typical application for the bintec WI-Client is the wide range of industrial application such machine to machine communication or mobile environment, i.e. a forklift.

The WI-Client connects over the ethernet interface all devices in its LAN segment with a LAN that is accessible over WLAN. In those scenarios all bintec Access Point are suitable for use.

The bintec WI-Client can receive and transmit data over it's serial port which are exchanged over LAN or WLAN with other devices, i.e. another WI-Client. The implementation of the serial interface is also compatible with the bintec Wlx040 and Wlx065 series.

## Versions

Feature	Description
bintec WI-Client	WLAN Client for Industrial Applications; Part number 5510000169

## Wireless LAN Features

Feature	Description
Encryption WEP/WPA	WEP64 (40 bit key), WEP128 (104 bit key), WPA Personal, WPA Enterprise, WPA2 Personal, WPA2 Enterprise
IEEE802.11i Authentication and Automatic Rate Selection (ARS)	802.1x EAP-PEAP, 802.1x EAP-LEAP, 802.1x EAP-TLS, 802.1x EAP-TTLS Available
Transmission speed	Automatic fall back or fixed transmission speed
Fixed bitrate	A fixed value for the transmission speed can be set
Data rates for 802.11b/g (2,4GHz)	54; 48; 36; 24; 18; 12; 9; 6 Mbps (OFDM modulation). 11; 5.5; 2; 1 Mbps (DSSS modulation)
Data rates for 802.11a/h (5GHz)	54; 48; 36; 24; 18; 12; 9; 6 Mbps (OFDM modulation)
Output power	Selectable 1, 3, 5, 10, 15, max. (18) dBm. The maximum output power varies according to data rate and frequency band.
Channel setting	According IEEE 802.11d
Antenna diversity	Can be switched on / off
Wireless mode	Infrastructure mode: For connection to APs, i.e. W1002 or other AP's. Ad-hoc mode: For connection to other WI-Clients (Bridge)
802.11 modes	Compatible modes: 802.11b only, 802.11g only, 802.11b/g mixed mode, 802.11a/h
AP Density	No roaming, high, middle, low. Select the access point density to control the behaviour when roaming between APs. The selected value defines the signal threshold where the device starts scanning for other APs.
List of available AP's	Include information about MAC address, SSID, Channel, Signal strength
Country specific settings	Operation channel according to the regulatory domain
TPC (Transmission power control)	At 5 GHz operation automatic power regulation supported according to EN301893
DFS (Dynamic frequency selection)	Relevant for 5 GHz operation: Implementation is not mandatory for devices there working in client mode. Together with bintec AP's the maximum allowed EIRP in 5 GHz operation is 200 mW.
RTS/CTS	RTS/CTS Threshold selectable

## Maintenance and Service

Feature	Description
Configuration and Setup	Via Webinterface
Supervision and Recovery	Supports the Compoint manager to detect the device on the LAN and managing the device IP address. Reset Button to set the device back to defaults
Configuration Management	Via Configuration File upload and download

## Serial Leased Line Support

Feature	Description
Interface (mechanical)	RS232 Interface with 9-pole D-sub female connector
Interface (electrical)	300-115,2 kbit/s, RTS, CTS, DSR, DCD, RI
Operation	Data transmission parallel to the Ethernet communication
Handshake mode	XON/XOFF, RTS/CTS or DTR/DSR are local handshake modes. In 'remote mode' the status of the handshake input signals (DSR+CTS) will be sent to the remote side via an extra port.
Port Mode	TCP/IP server; TCP/IP client; UDP/IP; Printer server; Com Server. The TCP/IP server and client mode is compatible to the implementation of the W1x040 and W1x065 Access Points. The Com Server mode is compatible to some PC applications.

## Software Features

Feature	Description
Cloning mode (I)	This feature controls the MAC Address of the Bridge as seen by other devices (wired or wireless).
Cloning mode (II)	If set to 'Ethernet Client (var)', the MAC Address from the first Ethernet client that transmits data through the Bridge will be used. This setting is useful if there is only one Ethernet device connected to the Bridge.
Cloning mode (II)	If set to 'Ethernet Client (fixed)', the MAC Address that is given in the Parameter 'Fixed Client MAC' will be used. If set to 'WLAN Card', the MAC Address of the WLAN Card will be used.
DHCP Relay Agent	Can switched on/off

## Hardware Features

Feature	Description
LAN Interface	10/100 Mbit/s Ethernet Twisted pair, autosensing, MDI/MDI-X
R232 Interface	R232 Interface with 9-pole D-sub female connector
Antenna socket	2x RP SMA socket
Antenna	Two Swivel Omni 2dBi antennas with RSMA socket include
Power supply	Requires 9 - 35VDC / 3W via a Circular M8-3pin connector with screw locking. The cable is including.
Status LED	On, WLAN, LAN, Ser1
Mounting	Wall mounting include, DIN Rail Mounting include
Housing	Aluminum
Dimensions	105x125x40 mm
Weight	470 g
Environment	Operation 0-70°C IP40 protection class
Certification	EN60950-1, EN301489-1, EN301489-17, EN301893, EN50371. FCC Class A digital device, pursuant to Part 15 of the FCC Rules, E1 licence for the operation in motor vehicles