i-modul WLAN

Transmission technology	Design: DIN rail	Embedded module	Desktop device	MoRoS
3G/UMTS		●	●	●
2G/EDGE	●	●		●
GPRS	●	●	●	●
GSM	●	●		●
ADSL		●		
Ethernet	●	●		●
WLAN	●	■		
Analogue	●	●	●	●
ISDN	●	●	●	●

Wireless Network

The i-module WLAN connect by a radio connection to a local are network or other WLAN devices:

- The *i-modul WLAN serial* transmits the serial data in IP packets according to the standard for local area networks and the internet. The partner device receives the data directly or by a virtual COM port driver.
- The *i-modul WLAN bridge* is a Ethernet-WLAN bridge that connects Ethernet devices in to a wireless LAN or connects two network segments without wiring.

The i-modul WLAN is pin and size compatible to all communication devices of the i-modul series (modem, ISDN, GPRS, EDGE, 3G Ethernet).

Wireless LAN for the industry

- communication module according to industry standard IEEE 802.11b/g
- radio part integrated, RF plugs for antenna
- control by AT commands or web interface
- pin and size compatible to the i-modul series
- WPA

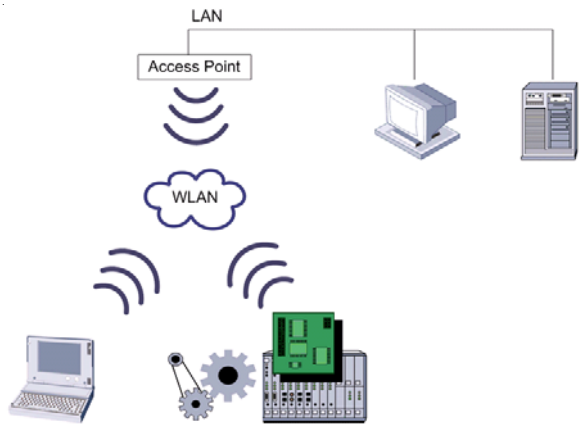
Application Examples

A control unit with integrated i-modul WLAN allows data communication to a single other WLAN device (e.g. a notebook) or through an access point with the local company network.

A vehicle with i-modul WLAN connects to the company network when entering the company premises and updates order and consumption data autonomously.

Applications

- Control and configuration by mobile terminals
- Mobile data acquisition – e.g. read out data by a PDA while walking
- Logistics
- Truck management
- Building control
- Data connection to mobile or badly accessible devices or in aggressive environments



INSYS
MICROELECTRONICS GmbH
Waffnergasse 8
D-93047 Regensburg

Phone
+49 941 58692-0

Fax
+49 941 58692-45

E-Mail
insys@insys-tec.de

Internet
www.insys-tec.de

i-modul WLAN

Technical Data

	i-modul WLAN serial	i-modul WLAN bridge
Functionality	seriell-WLAN gateway	Ethernet-WLAN bridge
WLAN Interface		
standard	WLAN IEEE 802.11b/g	
data rate	54 Mbit/s	
modes	infrastructure (to access point) and adhoc	
antenna	RF plug (Hirose-UFL) for 2 antenna	
Wired Interface		
mechanical	terminal strip (2 rows, pitch 2mm)	
functional	asynchronous seriall V.24/RS232, interface to RS485 converter	Ethernet 10base-T
electrical	TTL	
data rate	300 – 460.800 bit/s	10 Mbit/s
data format	8N1, 8E1, 8O1, 8N2, 7E1, 7O1, 7N2, 7E2, 7O2	
flow control	hardware (RTS/CTS), software handshake (XON, XOFF) or no handshake	
Protocols	ARP, ICMP, TCP/IP, UDP/IP, DHCP, DNS	ARP, ICMP, TCP/IP, UDP/IP, HTTP, DHCP
Configuration	AT command, local and remote (Telnet)	web interface local or remote
Additional features		
power management	existing	
firmware update	flash	
watchdog	implemented	
security	64/128-Bit WEP, WPA	
digital IOs	2 inputs, 2 outputs (with serial also transparently routed)	
Supply		
voltage	5VDC (±5%) over terminal strip	
current	typical 270 mA, maximum 400 mAdownto 80 mA with power management	
Physical		
size (wxl)	56,4 x 56,4 mm	
operating temperature	-20...+70 °C	
humidity	0 - 95% (nicht condensating)	
Conformity	CE, ETSI EN 300 328	

Support

- Designer's Guide
- Developer's boards
- Hotline

Product name	Features	Order number
i-modul WLAN serial 3.1	serial-WLAN-Gateway	11-01-01-08-01.
i-modul WLAN bridge 3.1b	Ethernet-WLAN-Bridge	11-01-01-08-02.

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