



“Industrial Bluetooth®” Gateway Solution for Industrial Field Busses

Industrial BlueXS-A

Reliable Bluetooth® LAN Access Point for industrial solutions



- Plug&Play Ethernet-Bridge for Profinet RT
- Modular systems for distributed automation e.g. over PROFINET, Modbus
- Wireless connection to many Bluetooth® devices, e.g. Desktops, Laptops, PDAs, Palm™ Pilots, Web Pads and industrial plants automation devices over tcp/ip (LAN)
- Capable Stand-alone Bluetooth® LAN Access Point providing fast gateway solutions for industrial field busses e.g. PROFINET, Modbus

The lesswire Industrial BlueXS-A can operate in different modes. The Industrial BlueXS-A is an Ethernet-Bridge: two BlueXS-A's can be connected as autarky operating Ethernet-Devices. A fast gateway for different field busses e.g. PROFINET can be realized in this case. PROFINET- packets get the highest priority - the real-time- communication (RT) mode with cycle times in range of 10 msec is possible.

On the other hand the BlueXS-A is a powerful Bluetooth® LAN Access Point with Bluetooth 2.0 EDR standard. It provides fast and convenient Ethernet access.

The lesswire Industrial BlueXS-A supports with PROFINET a well known standard. It fulfills all requirements for industrial automation Ethernet usage: beginning on the controller level, up to standard automation in I/O systems.

- Compatible to close all Standard-Ethernet-Components
- Optimized for Bluetooth® -Cells building





Specifications

SIG Certification:	Bluetooth® 2.0 DER
Range:	Up to 500 meter
Data Transfer Rate:	Up to 1 Mbit/sec (net)
Radio Range:	2.4 - 2.4835 GHz
Clients Supported:	7 active
Radio Range:	HCI and above (L2CAP, SDP, BNEP)
Profiles Supported:	General Access, Service Discovery, PAN (PANU, NAP)
Bluetooth® packet types	All packet types (up to 3-DM5/3-DH5)
Radio Class:	High-Power Class 1 Radio
RF Output Power:	Max. 20 dBm
Receiver Sensitivity:	-94 dBm by 0.1% BER
RF Modulation Schema:	FHSS
RF Modulation Types:	1 Mbit/s - GFSK; 2Mbit/s - $\pi/4$ DQPSF; 3Mbit/s - 8DPSK
Radio/Baseband Chipset:	CSR
Antenna:	External antenna with SMA connector
LAN Protocol:	IEEE 802.3 (Fast Ethernet)
Ethernet Support:	10/100 Base-T Fast Ethernet
Network Protocol:	PROFINET, TCP/IP
Connectors:	RJ45 (CAT5 cable)
Management:	SNMP, web- based configuration
LEDs:	Power, network, Bluetooth- status
Certification:	CE, UL, FCC, Bluetooth®, German Llyod; IECEE CB, Industry Canada (IC)
Processor:	ARM based RISC Prozessor
Operating Temperature:	-40° to 85° Celsius
Input Power:	24V DC, external power supply
Power Consumption:	100 mA max
Firmware- upgrade:	Firmware upgrade via Web/FTP
Security Initialization:	PIN Code
Security Authentication:	Security Mode 3 supported
Security Encryption:	128-bit Data Encryption support
Package Contents:	BT LAN Access Point, external antenna, Quick Start Guide

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Short info lesswire AG

lesswire AG develops and markets products and solutions for wireless data transmission and information utilization. We support all types of short range radio technology like Bluetooth® and WLAN (IEEE 802.11b), ZigBee etc. lesswire is a Bluetooth development pioneer. We develop customized Bluetooth® solutions that can be integrated in target systems.

