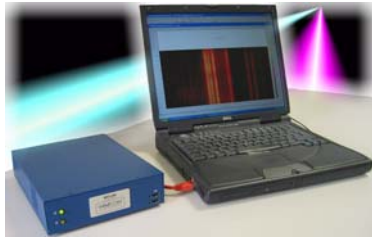


W51LAN

Mobile data decoder/analyzer

High portability and quick setup makes this WAVECOM® decoder the first choice for:



- Laptop users
- Mobile units
- Units, "ready to go"
- Outdoor monitoring
- Use in vehicles like planes, ships, cars etc.
- Environments with changing users/computers.

The full support of all W51PC functions lets the W51LAN easily communicate with other applications. Real DSP technology is combined with today's PC power.

General Description

The W51LAN decoder offers all the necessary functions to analyze, decode and process radio data transmissions. The complete electronic circuitry is realized in an metallic, shielded box. It can be connected to a PC or laptop via LAN or can run as a normal standalone system.

As the W51LAN needs 16-24 V for operation, it is very well suited for mobile use.

Operating

The W51LAN can be used in different ways:

1. With the WAVECOM® user interface from any computer connected to the LAN or the Internet.
2. With Windows XP remote desktop service.
3. As a self contained normal computer system.
4. With 3rd party remote control software, like shoc® RSM.

plication providing a familiar user interface. The easy-to-use software with clearly structured pull-down menus allows an operator to become familiar with the W51LAN in a short time. A high degree of operator proficiency is quickly achieved.

All of the integrated analysis tools contain different measuring methods and viewing options. Automatic mode recognition of



W51LAN Hardware

W51LAN contains a W51PC, a complete single board computer system, hard disk (full solid-state disk on request) and LAN. Multiple systems can be connected to one laptop/PC. It is also possible to use a W51LAN together with other WAVECOM® products.

W51LAN Software

The standard W51PC user interface is able to communicate with a W51LAN card over the network. The W51LAN application is a full 32-bit Microsoft® Windows™ ap-

FSK modes makes completely autonomous operation possible. Decoded data can be routed to be processed by user applications.



Real-time FFT functions with a fast display refresh rate are realized with high speed Motorola®

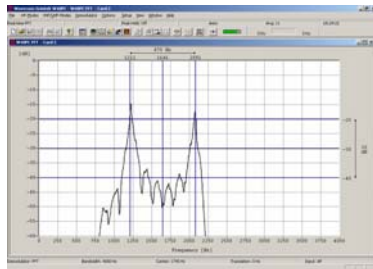
WAVECOM®
NACHRICHTENTECHNIK

DSPs. Additional functions provide powerful tools especially suitable for analyzing unknown signals.

A wide range of default system settings can be configured. Some examples are, input signal level, sampling rate, measuring interval, center frequency and demodulator. Additionally international alphabets and code tables can be selected.

Remote Control

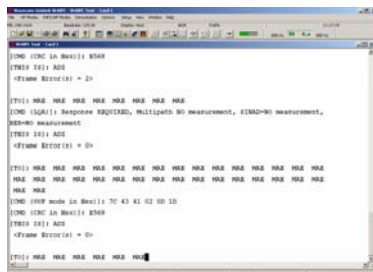
A W51LAN box can be controlled from everywhere on the LAN and its output can be sent to one or more applications on the network. The remote control functions are implemented as a DCOM interface.



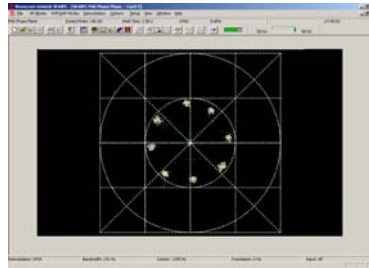
The documentation for the remote control interface is available for the professional users. The W51LAN is supported by the shoc[®] RSM (database control software for receivers and decoders).

Decoding

Using an audio or IF signal, W51LAN decodes more than 115 text and graphical transmission modes.

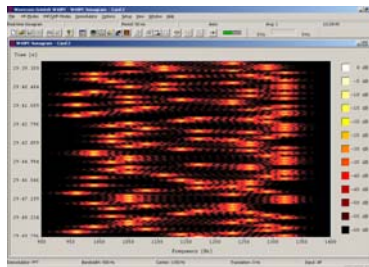


The detection of signal parameters is assisted by a large number of analysis and measurement functions that operate over a wide range.



To decode and analyze signal transmissions the W51LAN is equipped with two Digital Signal Processors (DSP) plus an additional 800MHz processor unit. This gives you the possibility to use it as a self-contained unit. Connect a keyboard, mouse and a display unit (LCD or CRT) and you have a full standalone decoder. Received data can be stored on the LAN or the local hard disk. To process data output, control the hardware and the mode parameters of the W51LAN, the standard W51 User interface is used.

New modes are in preparation.



Applications

Within official bodies and telecommunication authorities the range of applications is from mobile to stationary monitoring, from one transmission with a single system to fully automated broadband monitoring with a network of cooperating systems.

The frequency range covers a spectrum from the audio frequencies up to microwaves.

Typical fields of application for the W51LAN box include:

- mobile monitoring
- manual or automated monitoring of radio communication transmissions in the HF and VHF/UHF/SHF (satellite) bands
- signal intelligence
- signal analysis and classification

Included with the W51LAN are:

- The Alarm Monitor. It will play a sound or it will send a pager message if it detects some pre-set words in the received text.
- The Serial Link. It will send the received that to a serial port.
- The SAT C Monitor. This tool will save, sort and restore the data received from a SAT C channel.

Technical Details

The full technical details of the decoder card are found in our W51PC brochure.



- Size W/D/H 177x228.6x51 mm
- Weight: 2kg
- Power: 16-24V DC, 1.1A@24V
- Operating System: Windows XP
- Computer: 800 MHz, 256 MB RAM, 20 GB Hard disk, Triple 10/100 Base TX LAN, 1xRS232, 2xUSB, Keyboard/Mouse Connector, SVGA (up to 1600x1200 pixel) Connector
- Mounting rails and power supply 100-240V AC included.

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