Meinberg Radio Clocks
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MSF600USB: MSF Radio Clock for the Universal Serial Bus (USB)

The MSF600USB is a MSF Radio Clock for USB in a compact plastic housing with an integrated MSF antenna, an (optional) external antenna can be connected to compensate degraded reception quality. This device is a perfect alternative for synchronizing computer systems where no PCI slot or serial port is available for time synchronization.

Key Features

- USB 2.0 (Universal Serial Bus), 5V
- Receiver status LEDs
- Buffered hardware clock
- Powered by USB (no extra power supply required)
- Connector for external MSF antenna
- Plastic Case
- 3 Year Warranty

Description

The MSF600USB shows the reception quality via its status LED and uses a buffered real time clock to maintain the time while powered off. There is no power supply required, it is powered by the Universal Serial Bus.

The MSF600USB provides a professional solution to your time synchronization requirements in mobile applications like field data acquisition with a laptop/notebook and can be deployed whenever you need to synchronize a standalone PC, laptop or server when no PCI or serial port is available.

The drivers package for **Windows** contains a time adjustment service which runs in the background and adjusts the Windows system time continuously and smoothly. A monitor program is also included which lets the user check the status of the device and the time adjustment service, and can be used to modify configurable parameters, if run with administrator rights.

The driver packages for **Linux** and **FreeBSD** contain a kernel driver which allows the board to be used as a reference time source for the NTP daemon which is shipped with most Unix-like operating systems. This also turns the computer into an NTP time server which can also provide accurate time to NTP clients on the network. Some command line tools can be used to setup configurable parameters and monitor the status of the board.

The Meinberg Single-Driver-Concept simplifies driver installation dramatically - there is only one driver who supports all Meinberg PCI and USB devices and if you use our API to access your Meinberg timing device from within your own applications, you can use the same source code for both PCI and USB devices.

Characteristics

Type of receiver	Integrated MSF long wave radio receiver 60kHz ([1]MSF website)
Synchronization time	2-3 minutes after signal reception has been established
Physical dimensions	73mm x 117mm x 24mm (L x W x H)
Antenna connector	SMB-Subminiature-coaxial-connector
Current consumption	90mA
Ambient temperature	0 ... 50°C / 32 ... 122°F
Humidity	Max. 85%
Scope of supply	Radio Clock, 3 m USB cable
Warranty	Three-Year Warranty
RoHS-Status of the product	This product is fully RoHS compliant
WEEE status of the product	This product is handled as a B2B category product. In order to secure a WEEE compliant waste disposal it has to be returned to the manufacturer. Any transportation expenses for returning this product (at its end of life) have to be incurred by the end user, whereas Meinberg will bear the costs for the waste disposal itself.

Manual

The english manual is available as a PDF file: [2]Download (PDF)

Links:

[1] http://www.npl.co.uk/time/msf/
[2] https://www.meinbergglobal.com/download/docs/manuals/english/msf600usb.pdf