



Meinberg Radio Clocks

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USB5131: DCF77 Radio Clock for the Universal Serial Bus (USB)

The USB5131 is a DCF77 Radio Clock for USB in compact plastic housing with an integrated DCF77 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.

Important Note

This product is no longer available and may have been replaced by a newer product. We will, of course, continue to provide support for units that have already been purchased and are still in use. Please contact our [1][Sales Department](#) for further details.

This product has been discontinued and has been replaced with: [2]

Key Features

- Universal Serial Bus (USB)
- Reception status indicated by LED
- Buffered hardware clock
- Powered by USB (no extra power supply required)
- Connector for external DCF77 antenna
- Plastic case
- 2 year warranty

Description

The USB5131 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 USB5131 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 **Windows** driver package includes a time synchronization service which runs in the background and adjusts the Windows system time continuously and invisibly. This package also includes a monitor program to enable the user to check the status of the device and time adjustment service. If the monitor program is run with administrator rights, it can also be used to modify configurable parameters.

The **Linux** and **FreeBSD** driver packages include a kernel driver which allows the product to be used as a reference time source for the NTP daemon included in most Unix-like operating systems. This also allows the computer to be used as an NTP time server to provide accurate time to NTP clients on the network. Some command line tools can be used to modify configurable parameters and monitor the status of the clock in use.

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 free 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

Receiver Type	Narrowband tuned radio frequency receiver with automatic gain control, reception frequency: 77.5 kHz, bandwidth approx. 40 Hz
Accuracy	< ±5 ms to UTC
Synchronization Time	2
Antenna Connector	SMB subminiature coaxial connector
Current Draw	40mA
Physical Dimensions	73mm x 117mm x 24mm (L x W x H)
Supported Temperature	Operational: 0 - 50 °C (32 - 122 °F) Storage: -20 - 70 °C (-4 - 158 °F)
Supported Humidity	Max. 85 % (non-condensing) at 40 °C
Contents of Shipment	Radio Clock, 3 m USB cable
RoHS Status of Product	This product is fully RoHS-compliant.
WEEE Status of Product	This product is handled as a B2B (Business to Business) category product. To ensure that the product is disposed of in a WEEE-compliant fashion, it can be returned to the manufacturer. Any transportation expenses for returning this product (at end-of-life) must be covered by the end user, while Meinberg will bear the costs for the waste disposal itself.

Manual

The English manual is available as a PDF file: [3][Download \(PDF\)](#)

Links:

[1] <mailto:sales@meinberg.de>

[2] <https://www.meinbergglobal.com/english/products/dcf600usb.htm>

[3] <https://www.meinbergglobal.com/download/docs/manuals/english/usb5131.pdf>