



Meinberg Radio Clocks

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DCF600USB: DCF77 Radio-Controlled Clock for Universal Serial Bus (USB) Interface

[1]New model available!

The DCF600USB is Meinberg's compact solution for synchronizing the clock of the PC that it is directly connected to. This DCF77 radio-controlled clock features an integrated ferrite antenna, and can also be operated using an external antenna in locations where reception is less favorable.

It is designed to be operated over a USB interface, making it ideal for systems that lack both a RS-232 interface and an available PCI slot. Synchronizing portable computers (laptop/notebook) for mobile measurement data acquisition is thus no longer a problem.

Key Features

- Allows your PC's clock to be synchronized with DCF77 signal Integrated ferrite antenna for DCF77 reception Supports connection of an external DCF77 antenna USB 2.0 (Universal Serial Bus), 5 V
 Power supply via USB connector (no extra power supply required) Buffered hardware clock
- New: November 2021 Redesign Four LEDs for visual indication of device status Easy connection (USB-A to USB-B)



Description

The device has now been redesigned to incorporate a Micro-USB 2.0 connector that supplies it with the power needed to operate it.

Four LEDs provide a visual indication of the current status of the DCF600USB, for example showing the rhythm of time marker demodulation and the clock synchronization status.

A buffered real-time clock maintains the clock accuracy while the device is powered off. The power required to run the DCF600USB is supplied by the USB port and no external power supply is required.

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

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	90 mA
Physical Dimensions	73 mm x 117 mm x 24 mm (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-controlled clock, 1.8 m USB cable
Warranty	Three-year warranty
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: [2] Download (PDF)

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