



NeoClock




Precision radio clock for networks

TIME FOR PRECISION





Time for Precision

<p>Highlights:</p> <ul style="list-style-type: none"> Keeps network time with atomic clock precision Based on atomic time transmitters DCF77 or France Inter (TDF) Optimal reception even in unfavorable conditions Accurate: Dual antennas - multiple time signal verification Reliable: Integral high-precision crystal clock provides backup during signal failure 		
<ul style="list-style-type: none"> A secondary time server with a secondary NeoClock is also possible for even greater reliability Network time server and time clients for Windows 95, 98, ME, NT 4.x, Windows 2000 and NetWare <p>NeoClock can be used as a desktop or wall-mounted device. Unlike other radio-controlled clocks, its antennas do not have to be lined up precisely. Wall-mounting is recommended to avoid proximity to sources of electrical interference, such as PCs. In extremely noisy environments, the cable may be extended up to 100 meters. An indicator always clearly shows the quality of reception.</p>		 <p>Office model desktop usage</p>
		 <p>Office model wall-mount usage</p>
<p>Ordering information Windows version for: Windows NT 4.x, Windows 2000, Windows 95, 98, ME Receiver module and software NeoClock-II-D NT 1 x DCF77 receiver module, licence 1 server / 1 client NeoClock-II-F NT 1 x TDF receiver module, licence 1 server / 1 client Client licence upgrades NeoClock-II-NT 10 Licence upgrade for NeoClock NT, 1 - 10 clients NeoClock-II-NT 50 Licence upgrade for NeoClock NT, 1 - 50 clients NeoClock-II-NT 100 Licence upgrade for NeoClock NT, 1 - 100 clients NeoClock-II-NT 250 Licence upgrade for NeoClock NT, 1 - 250 clients NeoClock-II-NT 500 Licence upgrade for NeoClock NT, 1 - 500 clients NeoClock-II-NT 1000 Licence upgrade for NeoClock NT, 1 - 1000 clients NeoClock-II-NT 5000 Licence upgrade for NeoClock NT, 1 - 5000 clients Migration from Netware to Windows NeoClock-II-NT 1 Migration licence from Novell Netware to Windows, 1 server / 1 client</p>		
<p>Novell Network version for: Netware 3.x, 4.x, 5.x and 6.x Receiver module and software NeoClock-II-D N 10 1 x DCF77-receiver module, software licence for 1 - 10 servers NeoClock-II-D N 50 1 x DCF77-receiver module, software licence for 1 - 50 servers NeoClock-II-D N 100 1 x DCF77-receiver module, software licence for 1 - 100 servers NeoClock-II-D N 500 1 x DCF77-receiver module, software licence for 1 - 500 servers</p>		
<p>Industry/OEM version: NeoClock-II-D</p>	<p>Industry/OEM version without software. Time and date can be read from the V.24 serial port in binary and ASCII formats</p>	
<p>Option outdoor case: NeoClock-II-IP-67</p>	<p>Outdoor Model For locations very distant from the transmitter, extreme radio interference and for buildings with closed steel facades, NeoClock is also available in an optional waterproof, robust outdoor case.</p>	 <p>Optional waterproof outdoor case</p>

Accurate time-keeping is vital whenever system time is used in process control, scheduling, invoicing, and other time-critical applications. The clocks incorporated in computers are not accurate enough for this purpose, and conventional radio clocks can cause errors, for example if a misinterpreted signal results in the hour - or even the date - being changed. A nightmare for every system administrator!

NeoClock guarantees accurate system time even under the most unfavorable conditions and at great distances from the time signal transmitter, eliminating all possible error sources.

NeoClock is a turnkey solution consisting of all necessary components, including a receiver with built-in antennas and software for network time server and time clients. Hardware and software installation is quick and easy.

Accuracy and reliability

Two antenna system

NeoClock uses two independent antennas, arranged at right angles to each other. Compared to the commonly used single antenna, the need for proper alignment is eliminated. Also, the system is less sensitive to variations in signal reception and local electromagnetic noise.

Time signal verification

The time information undergoes a multiple-stage verification process. Only verified time information is passed to the time server and transmitted throughout the network. This information is also used to synchronize the built-in crystal clock.

Crystal clock

If a received time cannot be verified as being correct, NeoClock uses its built-in precision crystal clock to synchronize the network. This clock is backed up by a lithium battery with a reserve capacity of eight years and can keep time accurate to within five seconds even if no suitable time signal is received for one month.

Hardware installation

NeoClock is ready-to-plug into the COM port (1-4) of a server or PC using the built-in serial cable (5 meters, 9-pole D-Sub). Since NeoClock draws its power from the serial port, no additional connection or external power supply are required.

Models and range

NeoClock D uses the time information of the DCF77 system with its transmitter in Frankfurt, Germany. The transmitter power is 50 Kilowatts and a radius of 1500 kilometers, covering Central Europe.

The NeoClock F is based on the TDF system with a transmitter located near Paris, France. With its gigantic total transmission power of 2 Megawatts (40 times more than the DCF77), it makes accurate time available within a radius of up to 3500 kilometers throughout Europe, and even some regions of Russia and of North Africa.

SAFER CONNECTION