



GlobalTime Electronic Co., Ltd

GTD-360

NTP – Analog Clock

GlobalTime offers a wide range of NTP servers and NTP clocks.

Network Time Protocol (NTP) is a networking protocol for clock synchronization between computer systems over packet-switched, variable-latency data networks. NTP is the most popular time synchronization protocol in current use.

NTP is intended to synchronize all participating computers to within a few milliseconds of Coordinated Universal Time (UTC). It uses the intersection algorithm, a modified version of Marzullo's algorithm, to select accurate time servers and is designed to mitigate the effects of variable network latency. NTP can usually maintain time to within tens of milliseconds over the public Internet, and can achieve better than one millisecond accuracy in local area networks under ideal conditions. Asymmetric routes and network congestion can cause errors of 100ms or more.



Key Features:

- Draw both power and time updates from the network
- Power over Ethernet (IEEE802.3af)
- Supports up to NTP/SNTP servers for redundancy
- DHCP or Static IP addressing
- Time zone management (Factory-set to your time zone)
- Easy plug and play installation.
- Accuracy ± 20 millisecond to NTP/SNTP time server
- If connection to NTP server is lost the clocks will continue to run on the built-in time base. When the connection is restored, it will synchronize automatically
- Diameter size 38cm, Height: 5.1cm
- Aluminum in Silvery material

The Power over Ethernet Advantages

PoE is a network standard based on IEEE 802.3af that delivers DC power and data to Ethernet connected devices. PoE is fully compatible with powered and non-powered 10/100BaseT Ethernet devices.

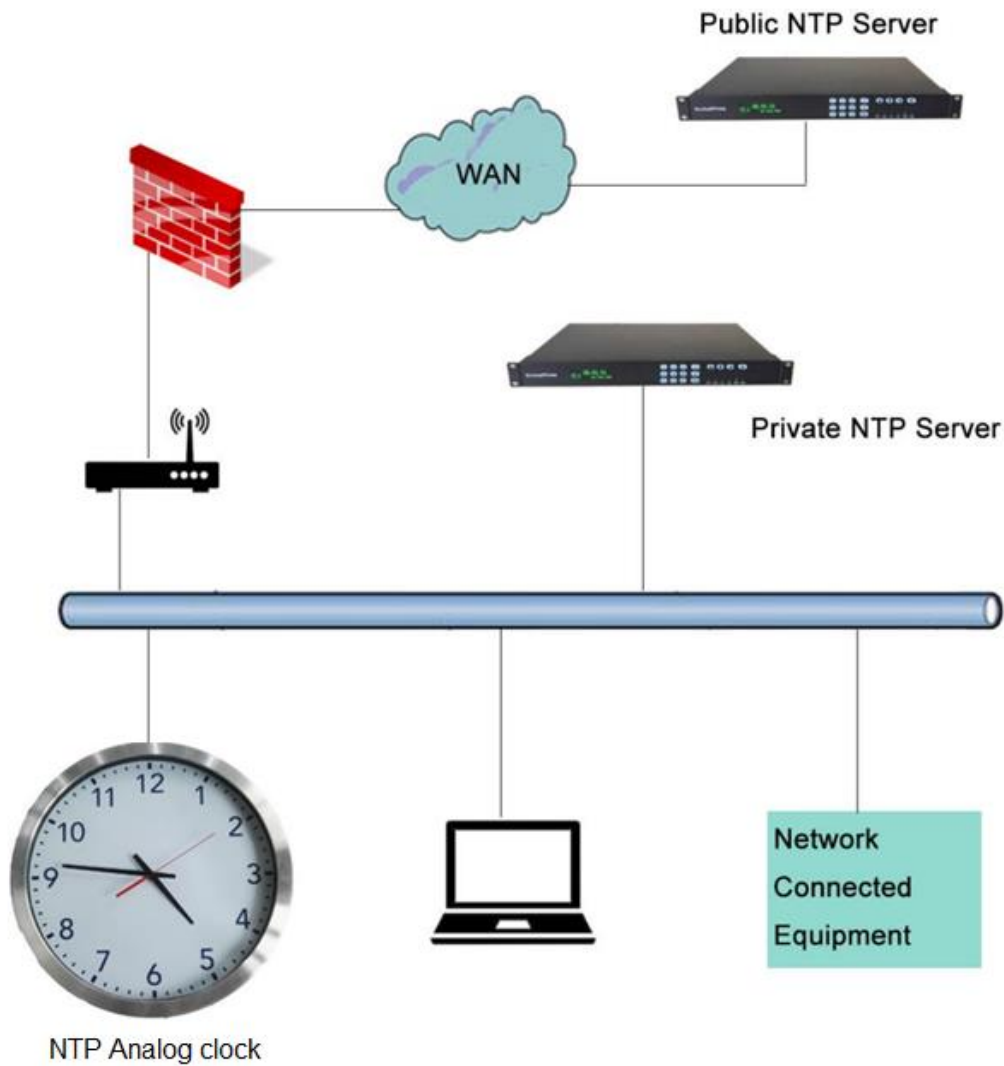
PoE clocks utilize Power over Ethernet (PoE), the same technology that powers IP phones. The PoE clock receives its power and data from a standard CAT5 patch cable via a PoE injector or switch. By simply using a Windows-based application, the user can view and/or change existing configuration of the entire system. The clock will receive its time from a SNTP time server for accurate timekeeping, thus eliminating the need of a master clock.

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Projects & Application



Applications:

Synchronized Time Systems for:

- Offices and home
- Healthcare
- Education (military schools)
- Manufacturing
- Insurance companies
- Financial institutes
- Transportation
- Government

Mechanical/Environmental:

- Size: Diameter: 38cm, Height: 5.1cm
- Material: Aluminum in Silvery
- Power: PoE support on IEEE 802.3af
- Operating temperature: $-10^{\circ}\text{C}\sim 60^{\circ}\text{C}$
- Storage temperature: $-40^{\circ}\text{C}\sim 85^{\circ}\text{C}$
- Operational humidity: 0~90%