

MASTER NTP TIME SERVER
TIMENET™
PRO



Accurate, low cost,
 extremely compact
 universal atomic
 clock reference for
 network time
 synchronisation

- | TIMENET Pro supports all NTP compatible devices
- | Ideal for synchronising VMS + ACS servers & clients
- | Ideal for closed or secure networks
- | Ideal for mobile or vehicle-based applications
- | Class 1 POE compatible (or 12V DC input)
- | Simple browser interface allows fast installation
- | Wide operating temperature range.

TIMENET Pro is a Master NTP reference clock for Ethernet networks with POE capability



TIMENET Pro is GPS based, so it can be used anywhere on the earth's surface

GPS is a global satellite system used primarily for position location, using accurate atomic clock references.



mounted on a roof, window or wall etc. As an alternative to POE, TIMENET Pro can be powered by an optional 12V DC supply (VPSU-12V-U).

TIMENET Pro Applications

With its compact rugged enclosure, extended operating temperature range TIMENET Pro is suitable for a wide range of applications and environments.

Security related applications include time synchronisation of DVR and NVR servers, access control servers, operator workstations, and even IP cameras. More general applications include time-synchronisation of Windows, Mac and Linux PCs and servers. The availability of full GPS position data to third party applications also makes TIMENET Pro ideal for use in mobile or vehicle based systems.

About GPS

GPS is a global satellite system used primarily for position location, using very accurate atomic clock references. GPS signals are far less prone to interference than traditional national radio clock signals. Thus TIMENET Pro is a universal solution which can be used anywhere in the world.

About Time Zones

UTC is effectively a GMT reference time and TIMENET Pro provides this via NTP as a universal reference. It is the task of the network client (i.e. DVR or other client device) to look after the local time zone setting for the country or zone location, including any local or national variations to daylight savings time or equivalent.

About UTC Time

Universal co-ordinated time is an official world-wide atomic clock reference for time, agreed by national standards around the world. UTC time copes with variations in the earth's rotation by the introduction of leap seconds at pre defined intervals. GPS time references incorporate this automatically. Therefore TIMENET Pro will continuously and automatically provide an accurate UTC clock reference over many years.

About NTP

NTP stands for Network Time Protocol and is a universal standard for time synchronisation of computers or other devices on a network. TIMENET Pro is NTP compatible and acts as a time server for any NTP-enabled client. All Windows, Linux and Mac OS operating systems are NTP compatible.

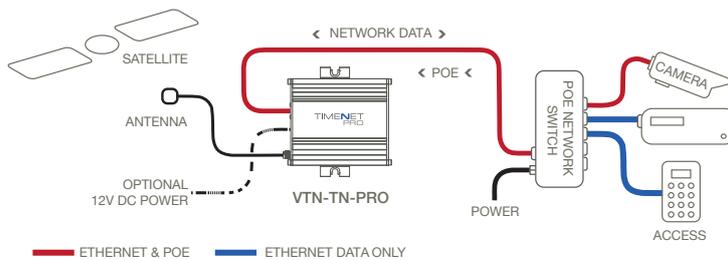


Diagram 1. TIMENET Pro delivers an accurate network time signal with maximum reliability and minimal installation effort.



TIMENET Pro comes with antenna and 5 metre cable included

TECHNICAL SPECIFICATION



TIME SERVER	
Time source	GPS Satellite
Protocol	NTP Stratum 1 Time Server
Accuracy	Ethernet NTP ± 1ms overall GPS source ±0.1µS
ANTENNA	
Connector	SMA Male
Cable	5 metre cable, (optional 10 metre extension)
Antenna head	GPS sensor, in externally rated magnetic housing (+ adhesive pad/window fixing)
POWER	
Unit power	1.5W
POE type	Class 1
Alternative power input	10-40V DC (max current 150mA at 12V)
ETHERNET INTERFACE	
Connector type	RJ45
Rate	10/100Base-T full-duplex with auto-negotiation
Data security	Shared Keys system (server authentication)
LEDS	
Status indicators	Green LED : long pulse: OK short pulse: no GPS lock Amber LED : heartbeat pulse
PHYSICAL/ENVIRONMENTAL	
Dimensions	L 87mm W 75mm H 22mm (W 97mm with wall mounting brackets) L 3.42 inches W 2.95 in H 0.86 in (W 3.8 in with wall mounting brackets)
Weight	123g [4.3oz] (with mounting brackets) 121g [4.2oz] (without brackets)
Operating temperature	TIMENET Pro -15°C to 75°C [5°F to 125°F] Antenna -40°C to 85°C [-40°F to 185°F]
Relative humidity	95% non-condensing
Compliance	CE, FCC, RoHS
PRODUCT CODES	
VTN-TN-PRO	TIMENET Pro Device
VTN-EXTEND	Antenna Extension (10 metre) [32.8 feet]
VPSU-12V-U	Optional 12V Power Supply (not required if POE is used)



TIMENET Pro Antenna
Extension Cable
10 metres



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