masibus



NTS20 Network Time Server is an accurate, low cost, extremely compact Din Rail mount GPS for network time synchronisation.

Network Time Server takes the time from GPS satellites and provide accurate time output over NTP protocol, to synchronize slave devices with 1 milliseconds accuracy or better with respect to universal UTC time. NTP is an "open source" (royalty free) time synchronization distribution and this feature is freely/already available in computer servers with different OS support, IP cameras and NVR's

NTS20 is a compact Network Time Server having time signal output like NTP for time synch applications. It is having USB port for configuration.

NTS20 provides accurate reference time signals for synchronization of security related applications that includes time synchronization 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.

NTS20 Network Time Server is supplied with GPS magnetic antenna with built in LNA. It is supplied with 3 meter of RG174 cable terminated with an SMA male connector. It can be fixed to any window which has a clear view of the sky. Optionally roof top antenna and antenna cable with extended length is provided if required.

NTS20 Network Time Server can be powered up over the network by PoE or by a 5V DC power supply.

Features

- Accurate, compact Network Time Server
- 12 Satellite parallel tracking
- USB port for configuration
- PoE option
- Supporting timing protocols:
 - o NTP/SNTP
- NTP v2/v3 with MD5/SHA authentication
- IPv4, UDP, TCP, SNMP, HTTP, Telnet networking protocols
- Remote alarm notification by SNMP

Applications

- Time synchronization of
 - Various security devices such as IP camera, CCTV, DVR, NVR, biometric identification devices, Access control system.
 - Microsoft windows, Linux, Servers/Clients, workstations and network infrastructure.
 - Automation systems, SCADA, Network monitoring and control systems (PLC/DCS)

TECHNICAL SPECIFICATIONS

CDC D								
	GPS Receiver			Interface Ethernet Connector Type 10/100Mbps (RJ45)				
Timing Accuracy		<15 ns			10/100Mbps (RJ45)			
Horizontal Position Accur	racy 10 meter	10 meter			IPv4, TELNET, SNMP, DHCP			
Tracking Satellite	12 parallel channels			Protocol	IF V4, TELINET, SINIVIF, DITICI			
Input Operating Frequen	cy 1575.42 MHz L1 C/A	1575.42 MHz L1 C/A			USB type B			
Hot Start	5 second	5 second			SNMP v1/v2c trap alarms (can be disabled),			
Warm Start	38 second	38 second			status LED			
Cold Start	45 second	45 second						
Status LED	Power, PPS, GPS lock	, Watch dog		Platform support: Windows 10/8.1/7 SP1/				
Time Server				NTP / SNTP Client Software	windows server 2012 R2/ 2008 R2 SP1			
Time Source	GPS	GPS			Unix Linux, Solarisserver synchronization			
	Antenna			Power				
Antenna Type	Magnetic	Roof Top (Optional)		Power Adaptor (5V/1A)	5V DC (MSTB connector)			
Connector	SMA	SMA		PoE Type	Optional (RJ45 connector)			
Antenna Type	28 dB	Active L1 GPS 40 dB		Power Consumption	<2.5W			
Antenna Cable Type	RG174	RG 6		Physical				
Operating Temprature	-40 to 85 °C	-40 to 85 °C		Dimension (in mm)	27 X 66 X 100 (H X W X L)			
Humidity	95%	95%		Mounting	Din Rail, Wall mount			
Ingress Protection	IP67	IP67		Ingress Protection	IP20			
Weight	60 g	150 g		Weight	0.3 Kg approx			
	Time Signal Output			Environmental				
Output Type	Description	Connector	Accuracy	Operating Temprature	0 to 55 °C			
	NTPv2/v3/v4 (RFC1119,			Storage Temprature	-20 to 80 °C			
NTP	RFC1305, RFC5905)	RJ45	±1ms	Humidity	20-90% non-condensing			
INTE	SNTP (RFC4330, RFC2030. RFC1769)			Hamilarty	20 7070 Horr condensing			
	NFC2030, RFC1709)							

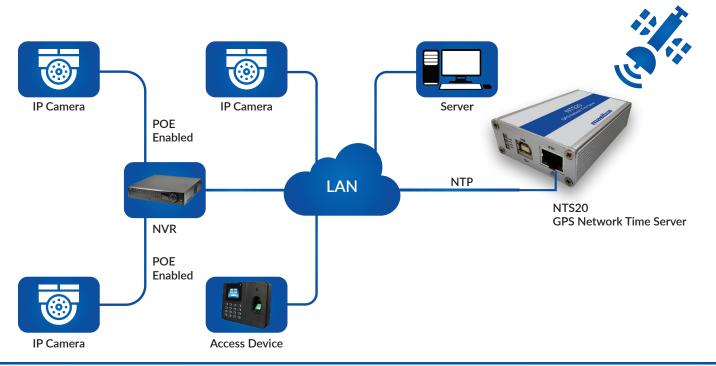
Ordering Code

	Model	PoE Option		Mounting		Antenna		Antenna Cable Length	
	NTS20	Χ		Χ		Χ		Χ	
		Ν	None	WO	Wall mount	1	Magnetic	0	None
		Υ	Yes	D0	Din Rail mount	2	Rooftop	1	15 Meters
							2	30 Meters	
								3	50 Meters
Note: For magnetic antenna 3 meter RG174 antenna cable will be provided							4	100 Meters	
For rooftope antenna specify antenna cable length						S	Special		

Standard Accessory

Non PoE Option	PoE Option
Power adaptor	USB type B cables
USB type B cable	1 no mounting clamp
1 no mounting clamp	

Application Diagram



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