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, 1PPS and Serial used for various time synch applications. It is having USB port for Configuration.

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

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
 - o NMEA (GPRMC)
- 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

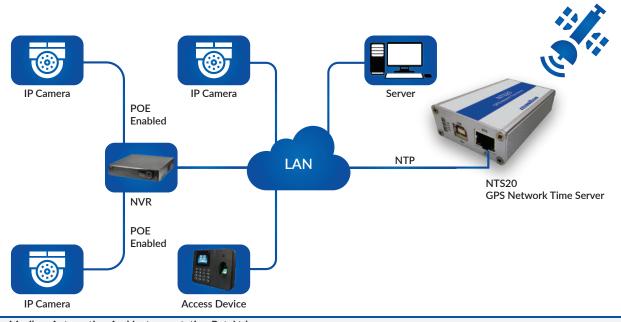
GPS Receiver

Timing Accuracy	<60 ns			Eth	ernet Connector Typ	oe .	10/100Mbps (RJ45)
Horizontal Position Acc	,				oporting TCP/IP and	UDP	IPv4, TELNET, SNMP, DHCP
Tracking Satellite	12 parallel channels				tocol		· · · · · · · · · · · · · · · · · · ·
Input Operating Frequency 1575.42 MHz L1 C/A				USI	USB (Configuration Only)*		USB Type B
Hot Start 5 second				Mo	Monitoring and Reporting		SNMP v1/v2c Trap Alarms (Can be disabled),
Warm Start 38 Second Cold Start 45 Second							Status LED
Status LED Power, PPS, GPS Lock, Watch dog				Fire	mware Upgrade		Ethernet Bootloader (10/100 Mbps (RJ45))
				┨	NTP / SNTP Client Software		Platform Support: Windows 10/8.1/7 SP1/
Time Server				-I NT			Windows Server 2012 R2/ 2008 R2 SP1
Time Source GPS							Unix Linux, Solarisserver synchronization
Antenna					Power		
Antenna Type	Magnetic		(Optional)		wer Adaptor (5V/1A)		5V DC (MSTB Connector)
Connector	SMA	SMA			Туре		Optional (RJ45 Connector)
Antenna Type	28 dB	Active L1 GPS 40 dB			ernate Power Supply		5VDC/1A Power Adaptor with USB Type B Cable
Antenna Cable Type	RG174 -40 to 85 °C	RG 6 -40 to 85 °C		Power Consumption 2.5W			
Operating Temprature Humidity	95%	-40 to 85 °C 95%			Physical		
Ingress Protection	95% IP67	95% IP67			mension (in mm)		27 X 66 X 100 (H X W X L)
Weight	60 g	150 g		Mounting			Din Rail, Table Top, Wall mount
· · · · · · · · · · · · · · · · · · ·		130 g	130 g		Ingress Protection		IP20
Time Signal Output			We	eight		0.3 Kg Approx	
Output Type	Description	Connector	Accuracy				Environmental
	NTPv2/v3/v4 (RFC1119, RFC1305, RFC5905)				perating Temprature		0 to 55 °C
NTP	SNTP (RFC4330,	RJ45	<=1ms		orage Temprature		-20 to 80 °C
	RFC2030, RFC1769)			Hu	ımidity		20-90% non-condensing
1000	1 Pulse per second		400				
1PPS	Pulse Width: 200ms	MSTB	±100ns				
	RS485 (NMEA 0183)						
Serial	Fix configuration:	MSTB	-				
	9600-8-N-1						
Ordering Code							
			Model		PoE option		
			NTS20	Х	•		
				N	None		
				Y	Yes		
Standard Accessory							
,							
Power Adaptor							
USB Type B Cable							
1 Magnetic antenna with 3 meter RG174 Antenna cable							
1 set Mounting Kit							
			Optional Acce	ssory	(Extra cost)		
Roof top Antenna							

Interface

Antenna cable for Roof top Antenna (specify in meters)

Application Diagram



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