

NTS-SD-01

Low Noise PPS/10MHz/IRIG

Precision Time Signal Distribution Unit



- **Distribution** 2-IN to 20-OUT
- **2x BANKS** 1-IN to 10-OUT
- **Frequency** range 0-10MHz
- **Compatible** 1PPS/PPM/PPH
- **Ref. Signals** 2/5/10MHz
- **Time Codes** IRIG-B DCLS
- **Supports** TTL & CMOS
- **Impedance** 50 Ohm
- **Connectors** SMA or BNC
- **Max. jitter** <50ps
- **Max. delay** <5ns
- **Rise/Fall time** <2ns
- **LCD disp.** optional*
- **NMI calibrated*** GUM PL*
- **Temperature*** stabilized*



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NTS-SD-01 is precise time signal and code distribution unit. It is rack"19 mount 1U unit. It provides precise redistribution of frequency signals in range 0-10 MHz. Signals are grouped to 2 banks (each bank supports 1-IN 10-OUT). All outputs are buffered TTL 5V. They are ultra fast and introducing very low max. 50ps jitter.

The distributor is optionally temperature* stabilised*, ensuring ultra high output stability. Output signals are TTL 5V (without load) and 2.5V when loaded at 50 Ω. This unit is ideal for distribution 1PPS, 2/5/10MHz signals and IRIG-DCLS TTL/CMOS. The LED indicators shows PPS impulses even when they are very short. The input socket is DC coupled and it can support the IRIG-DCLS family of signal too.

Unit is perfect for sharing high performance synchronization from Cs, HM and other ref. clocks. It was well NMI laboratory tested and calibrated to Cesium 5071A. It is compatible to signals:

Pulse Per Second family: 1PPS, 5PPS, 10PPS PP1S, PP5S, PP10S, PP1M, PP5M, PP10M, PP1H, PP5H, PP10H, 1PPM, 5PPM, 10PPM, 1PPH, 5PPH, 10PPH etc.	Frequency reference: 10MHz, 5MHz, 2MHz, 1MHz 100kHz, 10kHz, 1kHz
	Telecom sync. signals: 2.048 Mbps (E1 clean clock) 1.544 Mbps (T1 clean clock) (w/o HDB3 coding support)
	Smart Grids IRIG-B: DCLS (Note! No support for AM analogue modulation)

Technical Specification

Model: NTS-SD-01

Description:	Precise signal and time code distribution unit
Input (TTL, CMOS levels):	PPS, IRIG-B DCLS (unmodulated), any frequency 0 up to 10 MHz
Input/Output impedance:	50 Ω (both TTL, CMOS levels)
Input/output connectors:	SMA or BNC*
Rise time:	<2ns
Fall time:	<2ns
Jitter:	<50ps RMS
Temperature:	0°C to 50°C
Humidity:	0-95% non-condensed
Power:	85...264V AC, 100...370V DC
Dimensions:	44 x 483 (19") x 205 mm
Weight:	4kg
Safety:	IEC 61010-1:2010 / EN 61010-1:2010
EMC:	EN61326-1 (2006) EMC

Notes:

- Requirements for Measurement Control and Laboratory Equipment, Class A
- EN61000-3-2 (2006) +A1+A2 Harmonic Current Emissions
- EN61000-3-3 (2008) Voltage Fluctuation and Flicker Emissions

NTS-SD-01 with LCD display



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* extra feature requiring additional hardware and/or software firmware upgrade