

# NTS-SD-01

## Precise 1PPS/IRIG-DCLS distributor

The Precise 1PPS/IRIG-DCLS distributor is a 1U mount unit. It provides precise distribution of 1PPS or IRIG-DCLS (TTL) signals to 16 buffered outputs. The distributor is temperature-stabilised, ensuring high precision and stability of time parameters. All output signals are TTL without load and 2.5V when loaded with 50  $\Omega$ . This unit is ideal for distribution 1PPS signals and IROG-DCLS (TTL) as well. LED indicators show 1PPS impulses even when they are very short. The input socket is DC coupled so that it can support the IRIG-DCLS signal.



### Key features:

- 1PPS signal (TTL) distribution
- IRIG-DCLS (TTL) distribution
- Compact Rack Mount 1U-High package
- $\pm 400$ ps differential delay between outputs
- Input to output delay <5ns

### Specifications:

- Input: 1PPS, IRIG (Unmodulated) and other
- Frequency: 0 up to 1 MHz
- Input/Output impedance: 50  $\Omega$
- Input/output connectors: SMA
- Rise time: <2ns
- Fall time: <2ns
- Jitter: <50ps RMS

### Environmental and Physical Specifications

- 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: 3kg

### Standards:

- Safety: IEC 61010-1:2010 / EN 61010-1:2010
- EMC: EN61326-1 (2006) EMC
  - 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