



Meinberg Radio Clocks

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SDU-R: Redundant Frequency Sine or TTL Distribution Unit

The SDU-R is a distribution unit, designed to provide sine wave signals with low additive phase noise, TTL output signals via BNC female connectors or fiber optical signals via F-ST connectors on the system's rear panel.

In addition, a redundant power supply can be used for the respective application via various power supply modules. The signal distributor is used in areas where high reliability of the output signals is required.

* SDU-R/SIN/NET/AD10-AD10:

Rackmount distribution unit for 16 x 1-25 MHz sine outputs with redundant AC/DC power supplies

* SDU-R/TTL/NET/DC20-DC20:

Rackmount distribution unit for 16 x TTL outputs, redundant low DC power supplies

* SDU-R/FO/NET/AD10-AD10:

Rackmount distribution unit for 16 x fiber optical outputs (850nm, multimode) with redundant AC/DC power supplies

Key Features

- 16 outputs in an 1U chassis
- Internal switchover, 2 Error inputs and alarm relay
- Status LEDs of power supplies and switch card (selected input source, remote function, initialisation)
- Compact 1U housing, 19-inch rack mount option
- Redundant input signal and power supplies
- System monitoring via Meinberg Device Manager

Description

The SDU-R/SIN/NET/RPS distributes the input signals, which is provided to one or both inputs. If the unit is used in redundant mode, the internal decision logic, monitors both signals and chooses one input for distribution automatically.

The input signal can also be selected manually with the switch on the front panel.

The monitor programm Meinberg Device Manager, shows the level of all inputs and outputs, status of the power supplies and the internal system temperature.

Characteristics

Input signal	1 - 25 MHz sine wave, - 8 to + 8 dBm, BNC female
Output signal	1 - 25 MHz sine wave into 50 Ohm, BNC female Gain 0 dB
EMC Directives	IEC/EN 61000-6-3 Emission standard for residential, commercial and light-industrial environments IEC/EN 55032 Electromagnetic Compatibility of Multimedia Equipment IEC/EN 61000-6-2 Immunity standard for industrial environments IEC/EN 55024 Immunity standard for information technology equipment - limits and methods of measurement
Operating Voltage	PWR-AD10: 100-240 V AC (50 - 60 Hz) / 100-200 V DC PWR-DC20: 20-60, V DC Also available as redundant combination
Form Factor	19 inch multipac metal case 1U/84HE
Power Supply Unit	<p>PSU AD10 UN 100 - 240 V AC U_{max} 90 - 264 V AC P_{max} 15 W</p> <p>-----</p> <p>UN 100 - 200 V DC U_{max} 90 - 240 V DC P_{max} 15 W</p> <p>PSU DC20 UN 48 V DC U_{max} 20 - 60 V DC P_{max} 15 W</p>
Physical Dimensions	483mm x 43,7mm x 285mm (width x height x depth)

Protection	IP30
Supported Temperature	Operational: 0 - 50 °C (32 - 122 °F) Storage: -20 - 70 °C (-4 - 158 °F)
Supported Humidity	Max. 85 % (non-condensing) at 40 °C
Technical Support	Meinberg offers free lifetime technical support via telephone or e-mail.
Warranty	Three-year warranty
RoHS Status of Product	This product is fully RoHS-compliant.
WEEE Status of Product	This product is handled as a B2B (Business to Business) category product. To ensure that the product is disposed of in a WEEE-compliant fashion, it can be returned to the manufacturer. Any transportation expenses for returning this product (at end-of-life) must be covered by the end user, while Meinberg will bear the costs for the waste disposal itself.

Manual

The English manual is available as a PDF file: [1][Download \(PDF\)](https://www.meinbergglobal.com/download/docs/manuals/english/sdu-sine.pdf)

Links:

[1] <https://www.meinbergglobal.com/download/docs/manuals/english/sdu-sine.pdf>