



Meinberg Radio Clocks

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SDU: Signal Distribution Unit for PPS, 10MHz and IRIG Signals

Adding more outputs to your time sync rack by simply adding one or more Meinberg SDU devices. The SDU base chassis can be ordered with one or two distribution modules, each multiplying either TTL/IRIG DCLS or IRIG AM signals.

Key Features

- Maximum of 24 outputs in a 1U chassis (2x 1:12 distribution)
- Status LEDs
- Suitable for modulated (AM) and/or unmodulated (DCLS) IRIG signals
- One or two distribution modules
- Compact 1U housing, even in 24 port version
- 2 years warranty

Description

Each distribution module has one input and 12 outputs plus an alarm relay for signaling a missing input signal or an internal error. The SDU chassis fits in 19" racks and is available in combination with an AC or DC power supply.

The alarm relay contact and the status LEDs in the front panel show if an input signal or an internal error has been detected and could affect the output signal.

The following distribution modules are currently available, you can choose one or two of them for your SDU, all possible combinations are possible:

TTL The TTL Module can multiply TTL signals like 1PPS, 10MHZ or unmodulated IRIG (IRIG DCLS). Using one 1PPS or 10MHz output from your GPS receiver or frequency standard results in having 12 of them available without any modification of your basic signal generating device.

TCM With the TCM module you can get 12 IRIG AM outputs by using one output on your IRIG generator. The integrated adjustable automatic gain control feature of the TCM enables you to even cascade SDUs in order to add even more IRIG outputs to your system.

TCB The TCB module has been designed to multiply IRIG AM signals, the difference between the TCM and this module is that the TCB offers 12x balanced outputs.

Characteristics

Input signal	<p>TTL Module TTL signal (PPS, 10MHz, ...)</p> <p>TCM Module IRIG A/B modulated (AM)</p> <p>TCB Module IRIG A/B modulated (AM)</p>
Signal Delay	<p>TTL: 24ns TCM: 3us TCB: 2us</p>
Output signal	<p>TTL Module 12x TTL (2.5Vat 50Ohm), common GND for all outputs, BNC connector</p> <p>TCM Module 12x IRIG A/B modulated (3Vpp [MARK], 1Vpp [SPACE] 50Ohm) common GND for all outputs, BNC connector</p> <p>TCB Module 12x IRIG modulated (AM) balanced (2Vpp bei 600 Ohm) with isolated BNC connectos</p>
Physical dimensions	485mm x 45mm x 305mm
Power Supply Unit	<p>Standard PSU: 85 ... 264VAC, 47 ... 63Hz Several other power supply units (even for DC power supply) are available upon request.</p>
Power supply	85-264VAC (50/60Hz)
Form Factor	19" aluminium case (1U) Schroff Multipac
Ambient temperature	0 ... 50°C / 32 ... 122°F
Humidity	Max. 85%
Technical Support	Meinberg offers free lifetime technical support via telephone or e-mail.
Warranty	Two-Year Warranty
RoHS-Status of the product	This product is fully RoHS compliant
WEEE status of the product	This product is handled as a B2B category product. In order to secure a WEEE compliant waste disposal it has to be returned to the manufacturer. Any transportation expenses for returning this product (at its end of life) have to be incurred by the end user, whereas Meinberg will bear the costs for the waste disposal itself.

Manual

The english manual is available as a PDF file: [1][Download \(PDF\)](#)

Links:

[1] <http://www.meinberg.de/download/docs/manuals/english/sdu.pdf>