



## Meinberg Radio Clocks

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## IMS - MDU: Modular Distribution Unit

Meinberg MDU (Multi-Distribution Units) are the simplest and most convenient way to add more buffered timing signal outputs to your distribution rack. MDU systems enable multiplication of input signals coming from an external system such as a LANTIME or a GPS clock with, for example, PPS and 10MHz outputs to be expanded to a large number of output signals of the same type. The 3U / 19-inch MDU basic chassis can compose of a redundant power supply and can be equipped with one or two input modules to allow redundancy of the input signals.

### Key Features

- 10 MHz, PPS, IRIG, TC-AM / TC-DCLS reference signals and NTP/PTP via SDI-N2X
- Suitable for modulated (AM) and/or unmodulated (DCLS) IRIG signals
- Redundant power supplies and reference inputs

### Description

An MDU Input Module (SDI - Signal Distribution Input) can provide up to four inputs via BNC or SMA connectors - with 10 MHz, PPS, TC-AM and TC-DCLS as input signals. An optional alarm relay contact and status LEDs on the front panel show the user whether an input signal, an internal error (in case of a SDI-2101) or an error of the upstream clock (SDI-4112) which can affect output signals has been detected. With a SDI-2101 module, an internal error or a status of the card can be transferred via USB interface.

The IMS-MDU system can be configured with up to 12 output signal modules, each including 4 BNC female connectors (other connector types are available upon request).

For IMS-MDU systems the following plug-in modules are available divided into below-mentioned categories:

- \* PWR (Power Supply)
- \* SDI (Signal Input Modules)
- \* RSC (Switchover unit for Redundant operation)
- \* I/O (Output modules)

#### PWR:

Four PWR slots - they can be equipped with various IMS power supply modules in AC / DC range 100-240 V or low DC 20-60 V. In this way a basic or redundant power supply configuration can be realized.

**SDI:**

Two slots for SDI Input Signal modules. They have a dual function. By default, they can be attached with two separate systems using different input cards individually or duplicated input signals to facilitate redundant operation.

**SCU:**

In redundant operation a RSC (Redundant Switch Controller) card switches to serial interfaces and pulse / frequency outputs of the redundant input card in case of a failure of the active input module. The switching can be performed manually or automatically. All essential functions of the RSC, such as the actual switching status, alarming and operation mode can be monitored or triggered via a SNMP / Ethernet Interface.

**I/O:**

Up to 12 output modules can be inserted for individual configuration of the IMS-MDU system.

## Characteristics

<b>Supported Reference Signals</b>	<p>The following reference sources can be used to synchronize the system:</p> <ul style="list-style-type: none"> <li>* <b>Timecodes</b> - IRIG/AFNOR timecodes (AM/DCLS)</li> <li>* <b>PPS</b> - Pulse Per Second</li> <li>* <b>10 MHz</b> - 10MHz reference frequency</li> <li>* <b>NTP</b> - Network Time Protocol</li> <li>* <b>PTP</b> - Precision Time Protocol</li> </ul>
<b>Operating Voltage</b>	<p>PWR-AD10: 100-240 V AC (50/60 Hz) / 100-200 V DC  PWR-DC210: 10-36 V DC  PWR-DC20: 20-60 V DC  All PWR modules support redundant operation in chassis models with more than one PWR slot.</p>
<b>Form Factor</b>	Rackmount 3U chassis for standard 19" racks
<b>Physical Dimensions</b>	483mm x 132mm x 275mm / Width x Height x Depth
<b>Protection</b>	IP20
<b>Supported Temperature</b>	0 ... 50 °C / 32 ... 122 °F
<b>Supported Humidity</b>	Max. 85 % (non-condensing) at 40 °C
<b>Technical Support</b>	Meinberg offers free lifetime technical support via telephone or e-mail.
<b>Warranty</b>	Three-year warranty

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**RoHS Status of Product**      This product is fully RoHS-compliant.

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**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.

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**Manual**

There is no online manual available for this product.: [1][Contact us](#)

**Links:**

[1] <mailto:info@meinberg.de>