

Meinberg Radio Clocks
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IMS-MRI: IRIG, 1PPS, 10MHz Input Card

If an application requires to use external synchronization sources instead of radio/GNSS signals, an MRI card enables the installed clock module to synchronize to 1PPS, 10MHz, DCLS and AM time codes (IRIG B, AFNOR, IEEE1344 or C37.118).

Each MRI card is dedicated to one clock module, if a redundant solution requires external synchronization inputs for both clock modules, two MRI cards have to be installed. The MRI card is available with 4x BNC connectors.

Optionally, the MRI input card is also available with fiber optical inputs.

Key Features

- 10MHz, PPS, IRIG, TC-AM / TC-DCLS reference signals
- Option: 4 x 850nm Multimode inputs via ST connector

Characteristics

Reference Options	**Time Code unmodulated input (DCLS)** BNC connector, isolated by opto-coupler Insulation voltage: 3750 Vrms Internal series resistor: 330 Ohm Max. input current: 25 mA Diode forward voltage: 1.0 V - 1.3 V selectable Time Code Inputs, modulated / unmodulated (DCLS): B122/123 / B002/003 / B126/127 / B006/007 IEEE1344 (modulated and DCLS) AFNOR NFS 87-500 (modulated and DCLS) **Time Code modulated input (AM)** BNC connector, isolated by transformer Insulation voltage: 3000 V DC Input impedance: 50 Ohm, 600 Ohm, 5 kOhm Internally selectable by jumper (default 600 Ohm) Input signal: 600 mV to 8 V (Mark, peak-to-peak) **10 MHz input** sine (1.5 Vpp - 5 Vpp) or TTL, female BNC connector **PPS input** TTL, pulse duration >= 5
Status info	**Status info by 4 LED light indicators (2mm light pipes):** Initialisation, normal operation and state of the reference input signals.
Current consumption	5 V +-5%, 100 mA
Ambient temperature	0 ... 50°C / 32 ... 122°F
Humidity	Max. 85%
Warranty	Three-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] https://www.meinbergglobal.com/download/docs/manuals/english/ims-mri.pdf