



Meinberg Radio Clocks

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

This product is only compatible with Meinberg's line of modular **IMS LANTIME** systems.
Visit the [1][IMS Information Page](#) to learn more.

If an application requires the use of external synchronization sources instead of long-wave radio or GNSS signals, an MRI card enables the installed clock module to synchronize to 1PPS, 10 MHz, 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

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

Characteristics

Supported Reference Signals	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: 600 Ohm or 50 Ohm Internally selectable by jumper (default 600 Ohm) Input signal: 800 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 length >= 5
Status Indicators	Four LED indicators provide information on the status of the module: Initialization, operating state, and status of the reference input signals.
Current Draw	5 V +-5%, 100 mA
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
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: [2][Download \(PDF\)](#)

Links:

[1] <https://www.meinbergglobal.com/english/products/modular-sync-system.htm>

[2] <https://www.meinbergglobal.com/download/docs/manuals/english/ims-mri.pdf>