

Meinberg Radio Clocks
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IMS-ESI: 2.048MHz, 2.048MBit/s, 1PPS and Variable Frequency Input Card

ESI - Extended Reference Input
The ESI (External Synchronization Input) card is capable of adding additional synchronization sources to an IMS system. It accepts E1 and T1 sources, both as a Bitstream (2.048MBit/s/1.544Mbit/s, supporting SSM/BOC) or Frequency (2.048MHz/1.544MHz).

It also handles a configurable frequency (1 kHz - 20 MHz) and a 1PPS pulse synchronization source, if required. An ESI card is, as the MRI card, dedicated to one specific clock module (depending on the slot it is installed in) and can be installed in both ESI as well as MRI slots.

Key Features

- Extended reference input signals: - 1PPS, BNC female - var. frequencies (1 kHz - 20 MHz) unframed, BNC female - var. frequencies (1 kHz - 20 MHz) unframed, RJ45 - BITS E1/T1 framed, RJ45

Characteristics

Reference Options	PPS and variable frequencies unframed, 1 kHz - 20 MHz 2,048 Mbit/s / 1,544 Mbit/s - E1/T1 framed Input 1 - 1PPS (BNC female connector) TTL, pulse duration >= 5µs, active high Input 2 - 1 kHz - 20 MHz (BNC female connector) sine (400 mVpp - 5 Vpp) or TTL Input 3 - 1 kHz - 20 MHz (RJ-45) 400 mVpp - 5 Vpp into 120 Ohm, TTL Input 4 - E1 or T1 framed G.703 (RJ-45) max. attenuation -12 dB (referred to the signal level) into 120 Ohm
Status info	**Status info by 4 LED light indicators (2mm light pipes):** Initialisation, normal operation and state of the reference input signals.
Electrical Connectors	BNC female, RJ-45 jack
Current consumption	5 V, +-5%, 250 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-esi.pdf