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IMS-LSG: Line Signal Generator

This product is only compatible with Meinberg's line of modular **IMS LANTIME** systems.

Visit the [1][IMS Information Page](#) to learn more. **Generation of Reference Signals for Synchronisation Tasks** The module LSG (Line Signal Generator) generates different reference signals (Clock / BITS) which are derived from the GNSS-locked master oscillator of a preconnected satellite receiver.

Key Features

- Synchronisation of telecom networks
- Synchronisation of transmitters/base stations (GSM / CDMA / UMTS / DAB / DVB)
- Clock and Framed telecom outputs
- Reference frequency delivered by preconnected GNSS receiver
- E1 / T1 signal generator, settable by WebUI

Description

The module IMS-LSG is able to generate signals for the European E1-system and T1 - the North American digital communication operator standard.. The clock outputs are standard frequencies of 2048 kHz or 2048 kBit/s (E1) or 1544 kBit/s (T1). The E1 output signals are fully compliant with ITU-T G.703/15 (for 2048 kHz) and ITU-T G.703/11 (for 2048 kBit/s).

The mode of operation can be configured via the web interface of the IMS management module (LAN-CPU).

Up to eight outputs are available via DIN 1.0/2.3 coax or 9pin D-Sub female connectors.

LSG Module Types

- * **LSG-A:** 8 x 2048 kHz or 8 x 2048 kBit/s, unbalanced (75 Ohm) via 8 DIN 1.0/2.3 coax connectors
- * **LSG-2D:** 4 x 2048 kHz or 4 x 2048 kBit/s, balanced (120 Ohm) via 2 female D-SUB9 connectors
- * **LSG-4D:** 8 x 2048 kHz or 8 x 2048 kBit/s, balanced (120 Ohm) via 4 female D-SUB9 connectors

[Download LSG180 - Datasheet \(PDF\)](#)

Characteristics

Accuracy of Frequency Outputs	The accuracy of the generated output signals depends on the master oscillator of the preconnected reference clock.
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Optional Output Signals

* LSG180-A (4HP):

8x 2048 kHz or 8x 2048 kBit/s or 8x 1544 kBit/s, unbalanced (75 Ohm)
via 8 DIN 1.0/2.3 coax connectors (Out 1 - Out 8)

* LSG180-2D (4HP):

4 x 2048 kHz or 4 x 2048 kBit/s or 4 x 1544 kBit/s, balanced (120 Ohm) via 2 female D-SUB9 connectors (Out 1/2, Out 3/4)

* LSG180-4D (8HP):

8 x 2048 kHz or 8 x 2048 kBit/s or 8 x 1544 kBit/s, balanced (120 Ohm) via 4 female D-SUB9 connectors (Out 1/2, Out 3/4, Out 5/6, Out 7/8)

Operating Voltage	+5 V DC
Current Draw	5 V +-5%, 450 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 \(PDF\)](https://www.meinbergglobal.com/download/docs/manuals/english/ims-lsg.pdf)

Links:

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

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