Meinberg Radio Clocks
Lange Wand 9
31812 Bad Pyrmont, Germany
Phone: +49 (5281) 9309-0
Fax: +49 (5281) 9309-30
https://www.meinbergglobal.com
info@meinberg.de

GEN77: DCF77 Code Generator

DCF77 Code Generator GEN77

Important Note

This product is no longer available and may have been replaced by a newer product. We will, of course, continue to provide support for units that have already been purchased and are still in use. Please contact our [1]Sales Department for further details.

This product has been discontinued and has been replaced with: [2]

Key Features

- Leap Second Capability
- Daylight Saving Capability
- Amplitude Modulation and Phase Modulation
- TCXO Reference Frequency

Description

GEN77 generates all signals that are needed to drive or to simulate a DCF77 compatible transmitter: 77.5 kHz reference for the carrier, time marks for the AM, PZF pulses and PZF window for the PM. All output signals are based on one 10MHz reference frequency. This reference frequency is either generated by the on board quartz oscillator (TCXO, optional: OCXO) or applied externally. The beginning of a second can be synchronized with an external signal.

Characteristics

Display	LC Display, 4 x 16 characters
Control Elements	Shows time/date and other information of the system. Also several user parameters can be controlled and changed with 4 keys. Parameter Setting: Changeover of daylight saving is generated automatically. Beginning and ending of daylight saving may either be defined by exact dates for a single year or using an algorithm which allows the generator to recompute the effective dates year by year. The date of insertion of a leap second can be edited, too. GEN77 generates the announcement of the leap second as well as the leap second itself. The length of the time marks 0 to 15 can be controlled by 16 TTL inputs.
Interface	Single serial RS-232 interface
Serial Time String Output	Baudrate: 300, 600, 1200, 2400, 4800, 9600, 19200 baud Framing: 7N2, 7E1, 7E2, 8E1, 8N1, 8N2
Dimensions of the front panel	21HP/3U (106 mm x 128 mm), with integrated membrane keyboard
Electrical Connectors	64 pin rear VG edge connector DIN 41612
Power Consumption	1,5 W
Operating Voltage	+5V, +12V only when using OCXO)
Current Draw	+5V, @300mA +12V, @50mA (only when using OCXO)
Board type	Eurocard
Board Dimensions	160 mm x 100 mm, 1,5 mm Epoxy
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
Options	Also available as ready installed complete system GEN77TGP.

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

There is no online manual available for this product.: [3]Contact us

Links:

[1] mailto:sales@meinberg.de
[2] https://www.meinbergglobal.com/english/products/gen182.htm
[3] mailto:info@meinberg.de