Synoptes

Precise Absolute Time Stamp And Trigger

The compact Synoptes absolute timing module delivers timing products with sub-microsecond precision for a range of applications: from timestamping correlated events to synchronized triggering of scheduled observations.

KEY FEATURES

- Performs high precision absolute timestamps at a large frequency domain (0.1-20 events/second).
- Simple and intuitive graphical interface, compatible with Windows and Linux stations.
- External logging on the user PC with dedicated GUI for timestamping FIT format observations.
- Multiple options available for user preferences for cost-effective applications.
- Low power consumption and can be powered from the USB port.
- GNSS timing options based on all visible signals (GPS, GLONASS, Galileo, BeiDou, NAVIC, QZSS and SBAS).

Benefits and Performance

Synoptes was developed for precise timestamping of SST observations at astronomical observatories and the reference software implementation is based on this application, but this is just one of the potential use cases of the powerful and highly integrated device. Synoptes can be customized to fully meet your expectations.

Accurate timestamps

Synoptes can perform at a frequency of maximum 20Hz and produces accurate timestamps for events with sub-microsecond temporal separation.

Synoptes software module

Synoptes presents a dedicated graphical user interface for ease of configuration of the hardware module and integration with third party equipment (i.e. user camera or other triggering device). Synoptes is interfaceable with all operating systems (Linux, Windows, MacOS).

Trigger-In/Trigger-Out Operating Modes

Synoptes is capable of logging the precise absolute time of events (at the moment when the input is triggered). Additionally, it can also generate precisely timed pulses that can command data acquisition to an instrument.

Romanian InSpace Engineering SRL, Bucharest, Romania
sales@roinspace.com - support @roinspace.com
www.roinspace.com

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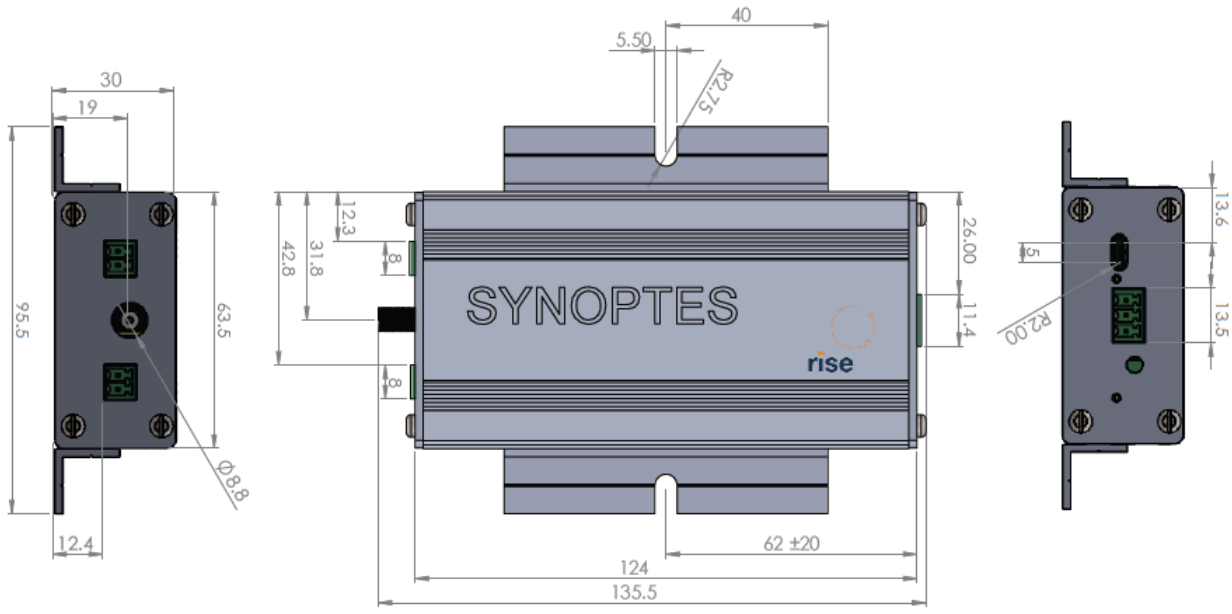
Specifications

Version	Synoptes L	Synoptes Z
Timestamps per second	10	20
Timing accuracy	40ns	12ns
Time pulse jitter	20ns	12ns
Time mark resolution	40ns	20ns
Dimensions	120mm x 63.5mm x 30mm	
Weight	180 g	
Operating temperature	-20..+85℃	
Storage temperature	-40..+85℃	
Supply voltage	4 - 5.25V on USB connector	
Power consumption	< 2.5W	
Trigger port voltage	3.3 - 25V	
PC Interface	USB 2.0	



*All specifications are subject to change without notification

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