SYNOPTES - early preview

GNSS Based Timestamping for SST Observations

The Synoptes GNSS timestamping module delivers very precise timing in a high-integrity package for various world-wide applications.

KEY FEATURES

- Performs high precision absolute timestamps at a large frequency domain (0.1-20Hz).
- Tracks all visible signals (GPS, GLONASS, Galileo, Bei-Dou, NAVIC, QZSS and SBAS).
- Low power consumption.
- Simple and intuitive graphical interface.
- External logging on the user PC.
- Multiple options available for user preferences for cost-effective applications.

*Expected availability in Spring 2021

Performances

Accurate timestamps

Synoptes can perform at a frequency of maximum 20Hz and produces accurate timestamps with a maximum frequency situated in the sub-microsecond order.

Synoptes software module

Synoptes presents a dedicated graphical user interface for ease of configuration of the hardware module and integration with the user camera.

Trigger-In/Trigger-Out Operating Modes

Synoptes is capable of producing timestamps based on either an input trigger generated by the camera or self-generated timepulses that command the camera to take photos.

Available for all operating systems

Synoptes is interfaceable with all operating systems (Linux, Windows, MacOS).

Available for customisation

Synoptes can be customized to fully meet your individual expectations.

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SYNOPTES

Specifications

Version	Alpha	Beta
Timestamps per second	10	20
Timing accuracy	40ns	10ns
Time pulse jitter	20ns	10ns
Time mark resolution	40ns	20ns
Dimensions	120mm x 63.5mm x 30mm	
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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