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Where in your studio does the PT 5201 fit?

The PT 5201 is a compact multi standard sync generator fitted with a TSG and two audio generators.

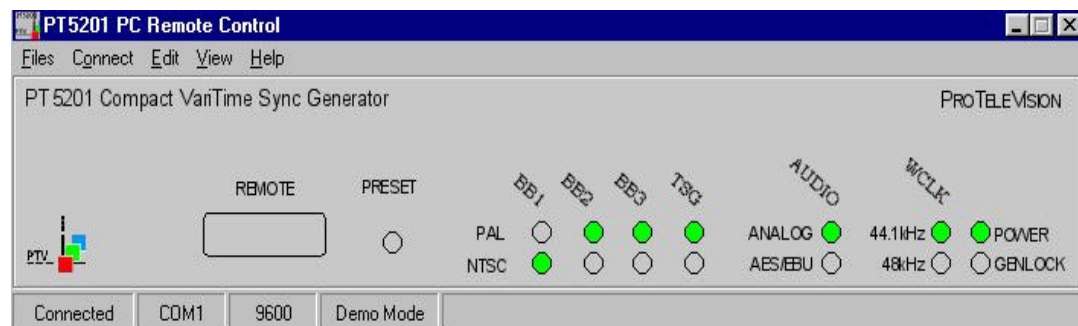The configuration is based on a well-arranged Windows interface.
The Windows interface makes it easy to manage all timing, patterns and audio features in one screen.
Modification from factory preset can be saved as a file on the PC harddisk or uploaded to the PT 5201 as a setup.
The setup are uploaded to PT 5201 in an instant mode or stored as a preset in the instrument.
Communication between PT 5201 and PC via standard RS-232 protocol, makes it possible to use any kind of PC.
Status of current functions and systems will be displayed at any time as matching LEDs, on the PT 5201 frontpanel.

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Analog Outputs
The sync generator is equipped with three VariTime^{TM} analog BlackBurst outputs. Each of these BlackBurst outputs is individually fully timeable and can be configured as NTSC or PAL-generator, in any combination.

Analog Test Signals Output
An analog TSG generator, configurable in system and timing, is also included. The TSG generator provides standard colorbars and testpatterns, according to SMPTE and EBU. For diagnostics in studio setups a list of simple testsignals is available.

SDI Output
The SDI TSG output is based on the same digitally generated Analog Test Signal generator and therefore it outputs the same test pattern and timing. The SDI output includes codes for embedded audio, featuring data for 1kHz Stereo and silence.

The SDI signals are in general generated as 10 bit signals, except the EBU 75% Color Bar signal which is generated with 8 bit according to ITU 801
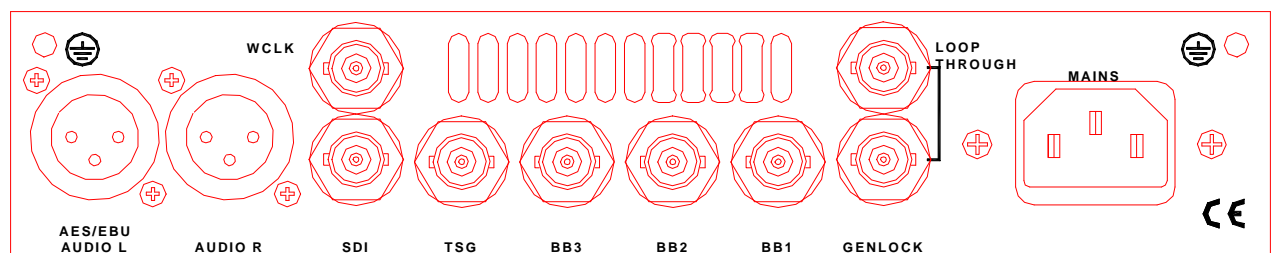
Analog Audio Outputs
The Analog Audio generator provides three different test tones in a number of levels. The output is available in stereo, mono and includes click markers for identification of left channel. The click interval is selectable.

AES/EBU Serial Digital Audio Outputs
The Serial Digital Audio generator provides three different test tones in a number of levels. The output is available in stereo, mono and includes click markers for identification of left channel. The click interval and samplings frequency for the AES/EBU output are selectable. The generator also features system lock and timing facilities.

WordClock Output

The WordClock signal is a continuous reference clock operating at TTL level, used for synchronizing audio equipment. Sampling frequency of 44.1 or 48 kHz is selectable in the audio window.

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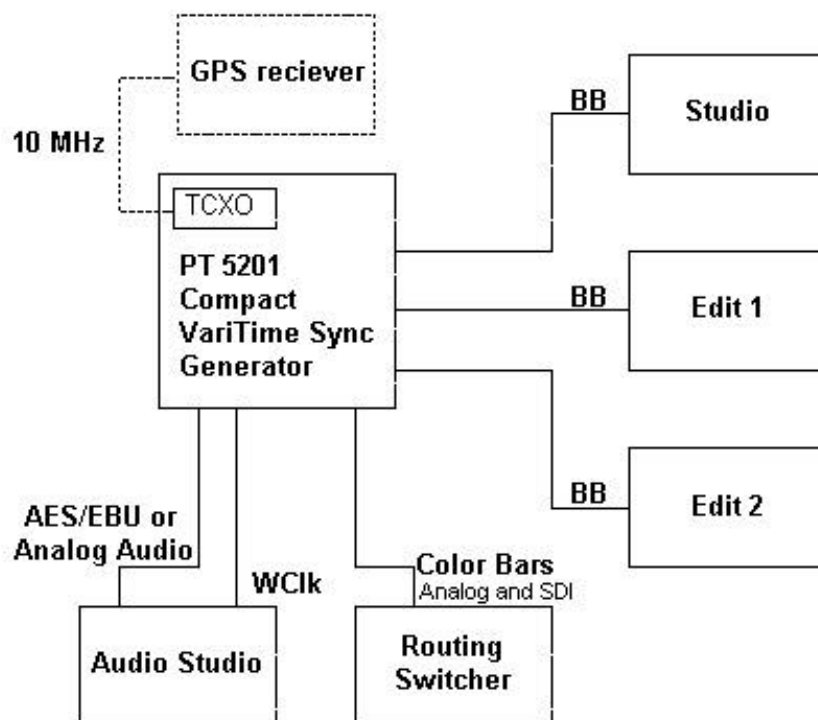
Master/Genlock Applications

The PT 5201 is designed to manage slave as well as master operations, as a stand alone unit.

In systems where PT 5201 operates as a master the genlock function locks to an internal, high stability TCXO, reference oscillator.
For use in applications where the PT 5201 operates as a slave the genlock function is used.
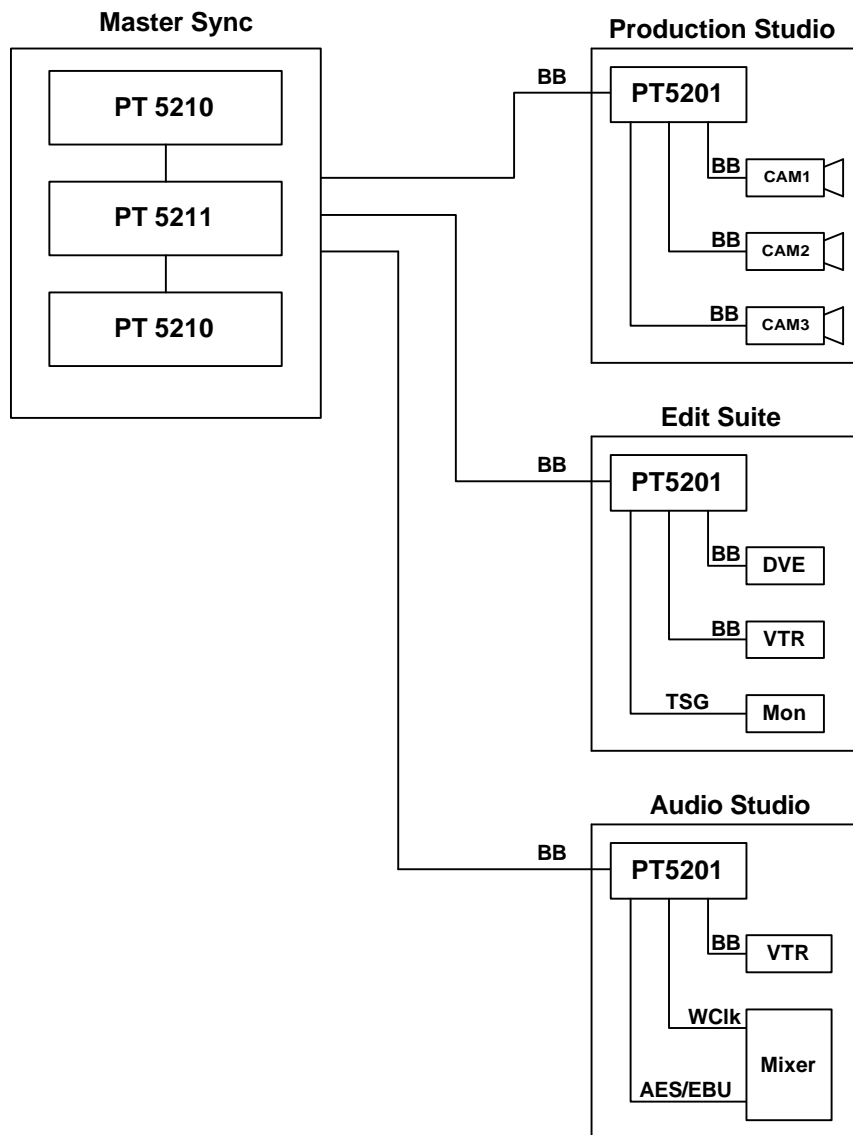The genlock function features genlock to NTSC and PAL video signals, Black Burst house sync or a 10 MHz reference clock, e.g. from a GPS receiver. Further more the genlock function features timing and active loop-trough of the genlock signal.

Small studio master

Eksample of PT5201 working as master generator in a regional studio.

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Large studio slave

Master Sync

| PT 5210 |
| PT 5211 |
| PT 5210 |

BB

Production Studio

PT5201

BB CAM1

BB CAM2

BB CAM3

BB

Edit Suite

PT5201

BB DVE

BB VTR

TSG Mon

BB

Audio Studio

PT5201

BB VTR

WClk

Mixer

AES/EBU

Eksample of PT 5201 working as slave in a larger studio setup. To PT 5210 VariTime Digital Sync Generators along PT 5211 VariTime Change Over Unit are suiteble as master sync generator in larger studio setups.

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