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Flashlink

SPG-PTP

IP based sync pulse generator

The Flashlink SPG-PTP is designed to fit studio needs providing sync signals for audio and video equipment.

With the convergence to IP infrastructure it is necessary to remove the coax distribution of sync in the facility. However, existing video and audio equipment in the studios and control rooms still require the traditional analog reference. The SPG-PTP card bridges the gap between the IP network and devices—from a reference point of view—generating a set of baseband sync signals based on the PTP signal distributed by the IP network. The baseband reference signals cover SDI, analog black, wordclock, AES11 and 1 PPS.

Phase alignment of the analog sync signals provided by the card can be adjusted, taking in consideration latency of SDI to IP conversion or downstream processing. It allows the broadcast network to remain in sync and phase aligned even on IP.

SPG-PTP can be enclosed in any Flashlink housing, including the small single card enclosure N-BOX, allowing sync availabilty in any location.

Flashlink's element manager Multicon enables configuration and monitoring of the SPG-PTP thru a web-interface as well as industry standard SNMP.

Applications

- Sync distribution
- IP studio
- Head-end synchronization

Key features

- 1x SDI output
- 5x analog black outputs
- 2x PPS outputs
- 4x AES11
- 4x Wordclock
- Adjustable video phase

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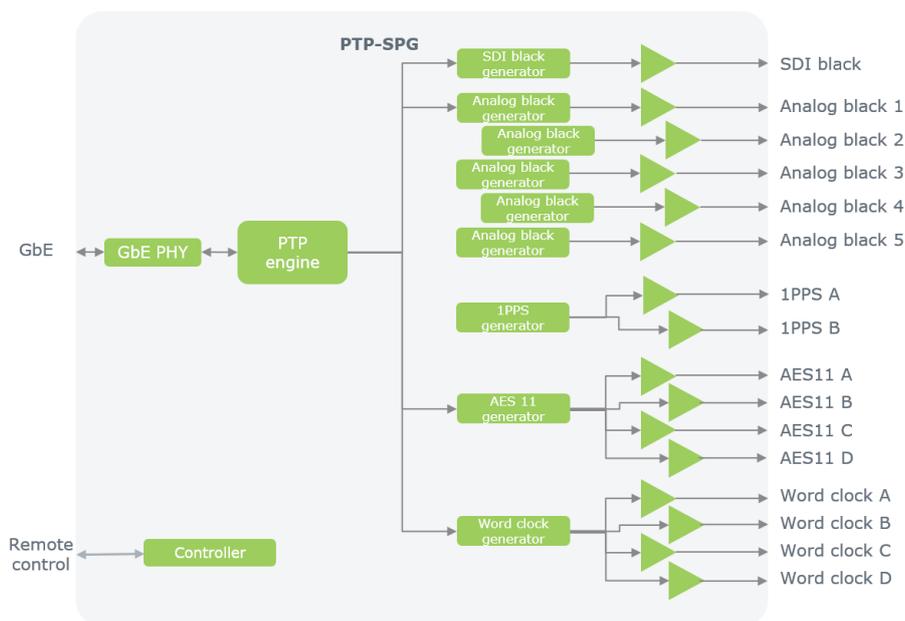
Product description

SPG-PTP generates 1 SDI black, 4 analogue black, 4 wordclock, 4 AES11 and 2 1PPS from a PTP signal distributed over an IP network. In addition it has a reference signal that is locally distributed to the FR202 Flashlink chassis to synchronize other Flashlink cards. It should be noted that the analog black signal comes without a burst and is as such not suitable for analog video equipment.

The video based sync signals can be independently phase adjusted to compensate for different equipment and workflow latencies. For setup of IP addresses, PTP sync domain and phase adjustment the Flashlink element manager Multicon is required. However, after setup, the board can be used without management connection in for example the N-BOX.

Specifications

General

Power	3.4W/5V
User interface	Status LED, configuration DIP switches Web interface and SNMP thru Multicon controller
Operating temperature	0-40C

Supported standards

IEEE802.3ab,IEEE1588-2008, SMPTE2059-1/2

Analog sync output

No of outputs	4 external to backplane + 1 internal to frame
Supported formats	Analog black (no burst)
Connector	DIN1.0/2.3

Digital sync output

No of outputs	1
Supported formats	SD-SDI 525i/59.94, 625i/50
Connector	DIN1.0/2.3

1PPS output

No of outputs	3
Supported formats	TTL
Connector	DIN1.0/2.3

Digital audio reference

No of ports	4 + 4
Signal type	Wordclock, AES11
Direction	output
Connector	DB-25F

Electrical Ethernet port

No of ports	1
Signal type	1Gb Ethernet
Connector	RJ45
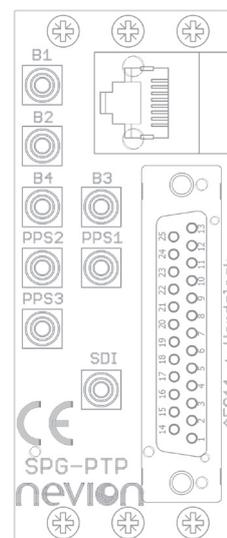
Connector module for SPG-PTP

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