

NGS-101

8 channel (HD-)SDI Input Module



As part of the Networked Broadcast Monitoring System, the NGS-101 captures SDI and HDSDI input signals, encodes them in JPEG-2000, and streams them out over a gigabit Ethernet network.

- 8 auto-sensing high-definition/standard definition SDI input channels
- 8 x BNC connectors 75 Ohm
 - SMPTE 292M compliant for HD-SDI
 - SMPTE 259M compliant for SDI
- 2 x GEb connections for redundant network connection with in-band management
- Embedded audio and metadata extraction
- Designed with
 - Hot-swappable, front-accessible processing board
 - Rear-accessible passive connection board
 - Fits in NGC-110 chassis

Technical specifications NGS-101

Inputs

- 8 x BNC connectors
 - SMPTE 292M compliant for HD-SDI
 - SMPTE 259M compliant for SDI
- Input cable equalizer

Pre-processing

- High-quality deinterlacer
- Integrated scaler to minimize bandwidth requirements on the network
 - YUV 4:2:2 processing
 - Low latency
 - HD downscaling

VBI decoding

- CC
- XDS
- WSS
- VLI
- Teletext subtitles
- VITC
- Embedded audio

Image analysis

- Video black, video white, video freeze and video lock detection.
- The NGS-101 can raise alarms based on user-configurable threshold values.

Encoder system

- HD input capable JPEG2000 SD encoder targeted at video and high bandwidth compression applications based on wavelet transformation
- Provides fully compliant code stream generation (Tier1 and Tier2).
- Non temporal compression for minimal latency
- Flexibility from lossless to very low bitrate
- State-of-the-art compression rate, 1 frame only
- Tier 2 mechanism allows filtering and transrating without decoding
- Inherent scaling perfect for display applications

Network interface

- 2x GbE connections for redundant streaming network connection
- Multicast streams – IGMP3.0 standards
 - High quality video streams (One or multiple RTP/UDP multicast streams to allow bandwidth management)
 - Thumbnail video streams
 - Audio & metadata streams
 - Control data

Power consumption

- Typical 60 Watt

Dimensions

- Utilizes one slot in NGC chassis

Ref. no. R599155SSE0509R003

Barco is an ISO 9001 registered company.
Technical specifications are subject to change without prior notice.
The latest version of this product sheet can be found on www.barco.com

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