

STORM 3G

3G-SDI I/O with HDMI Monitoring Output for EDIUS



A single solution for both SDI-based editing and tapeless workflows, with the capability to preview EDIUS projects on affordable HDMI monitors.

STORM 3G from Grass Valley is designed for video professionals who want one solution for both SDI-based editing and tapeless workflows, with the capability to preview their projects on affordable HDMI monitors.

Based on the PCI Express form factor, the STORM 3G solution has 3G-SDI inputs and outputs, and an HDMI output for full-resolution, real-time preview monitoring. Embedded 3G-SDI audio provides high-quality audio monitoring. It's a premium, high-powered solution for multi-format editing with the EDIUS NLE (purchased separately).

Timecode input and output is supported via the RS-422 port for accurate editing from field logs. The reference input supports both analog blackburst and tri-level sync. External VTR ingest can be controlled via the RS-422 port and the optional VTR emulation software may be used to control the EDIUS NLE workstations like a VTR for direct playout from the workstation.

The STORM 3G board can handle any mix of high- and standard-definition (1080p, 1080i, 720p, NTSC and PAL) video content; unlimited video, audio, title, and graphics layers; and any combination of real-time effects. It also offers real-time, full-resolution, full-quality HD and SD video outputs.

An optional timecode in/reference out board takes a linear timecode source via the BNC connector and provides two reference outputs — blackburst or tri-level sync — providing a means to synchronize both the STORM 3G and an external device, such as a source deck, from a single timecode source.



KEY FEATURES

- 3G-SDI input and output with embedded 16ch audio and timecode
- HDMI output for full-resolution, real-time monitoring from EDIUS Pro NLE software (purchased separately)
- Embedded HDMI 8ch audio output for high-quality audio monitoring
- Video and audio output stays perfectly in sync, with editing windows for accurate editing and trimming

- Reference input supports blackburst or tri-level sync
- RS-422 master or slave machine-control support*

* Slave functions require the EDIUS VTR Emulation option, available separately

SPECIFICATIONS

Bus Interface

PCI Express Rev. 1.1 x4 lane

Video Formats (Input/Output) (3G-SDI)

1920x1080p50/59.94
 1920x1080i50/59.94
 1920x1080PsF23.98/24/25/29.97
 1280x720p50/59.94
 720x486i59.94
 720x576i50

Video Formats (Output) (mini HDMI)

1920x1080p50/59.94
 1920x1080i50/59.94
 1280x720p50/59.94
 720x480i59.94
 720x576i50
 720x480p59.94
 720x576p50

Video Output Connector

3G-SDI:

Video: SMPTE ST 424 (Level-B), SMPTE ST 292, SMPTE ST 259-C
 Audio: SMPTE ST 299, SMPTE ST 272-A
 Timecode: LTC/VITC Packet (HD), D-VITC (SD)

Mini HDMI 1 port (HDCP not supported):

Video: YCbCr 4:2:2 (8-bit and 10-bit)
 Audio: LPCM 8-channel (24-bit/48 kHz)

Video Input Connector

3G-SDI:

Video: SMPTE ST 424 (Level-B), SMPTE ST 292, SMPTE ST 259-C
 Audio: SMPTE ST 299, SMPTE ST 272-A
 Timecode: VITC Packet (HD), D-VITC (SD)

Audio Formats

LPCM 48 kHz/24-bit

Audio Output Connectors

Mini HDMI LPCM 8-channel
 3G-SDI embedded 16-channel audio

Reference Input

BNC: Black Burst or Tri-Level Sync

Machine Control

9-pin D-Sub: RS-422A (Master/Slave*)

Power Requirements

+12V: 1.6A, +3.3V: 0.5A

Physical Dimensions

111.15 x 167.65 mm (4.375 x 6.600 in.) (HxW)

Regulatory Compliance

CE, FCC CLASS B, C-Tick

Minimum System Requirements for EDIUS NLE

Any Intel Core 2 or Core iX CPU. Intel or AMD single core CPU with a 3 GHz processor speed or faster (multiple CPUs and/or multi-core CPUs are recommended). SSSE3 (Supplementary) instruction set supported

1 GB RAM (4 GB or more recommended)

One free PCI Express x4 bus slot

6 GB or more space required for software installation

Drive with ATA100/7,200 rpm or faster is required for video storage:

- Available hard disk space should be twice the size of the file to be edited
- RAID-0 is recommended for HD and above resolution editing

A graphics card supporting a screen resolution of at least 1024x768, 32-bit, Direct3D 9.0c or later and PixelShader Model 3.0 or later is required

Graphics card memory requirements when using GPUfx will vary depending on the project format. For 10-bit SD project: 1 GB or more recommended, for HD/4K projects 2 GB or more recommended

Sound card with WDM driver support required

DVD-ROM drive is required for software installation. For writing onto DVD or Blu-ray Disc, a compatible drive is required

Windows 7/8/8.1/10 (64-bit)

Internet connection for EDIUS software activation

Note: EDIUS requires Windows 7/8/8.1/10 (64-bit).

Note: For Windows 8/8.1/10 EDIUS v7.21b1530 or later is required.

** Slave functions require the EDIUS VTR Emulation option, available separately*

ORDERING

Package Contents

STORM 3G PCI Express x4 bus card. Model No. 600889.

An optional timecode in/reference out board also is available (pictured bottom right). Model No. 600612.



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