

Release notes SYGDG2-SYGDG3

These release notes are applicable to the following modules:

- GXT010
- GXT100
- GXT110
- HXT010
- HXT100
- HXT110

Software version	7654
Hardware version	0203, 0204
Platform	SYGDG3
Date	06-12-2018
Filename	gdg3-gxt-0203to0204-7654-service.zip

Improved SDI input switching of synchronous sources (identical SDI formats). Now a changed input selection will trigger an input source switch during the switch line only.

Software version	7654
Hardware version	0101, 0102
Platform	SYGDG2
Date	06-12-2018
Filename	SYGDG2_2-0101to0102-7654-service.zip

Improved SDI input switching of synchronous sources (identical SDI formats). Now a changed input selection will trigger an input source switch during the switch line only.

Software version	7653
Hardware version	0203, 0204
Platform	SYGDG3
Date	20-08-2018
Filename	gdg3-gxt-0203to0204-7653-service.zip

Fix:
Black line on the left hand side of the picture

Software version 7653
Hardware version 0101, 0102
Platform SYGDG2
Date 20-08-2018
Filename SYGDG2_2-0101to0102-7653-service.zip

Fix:
Black line on the left hand side of the picture

Software version 7652
Hardware version 0203, 0204
Platform SYGDG3
Date 01-06-2017
Filename gdg3-gxt-0203to0204-7652-service.zip

- Lip sync corrected with add_on card.
- Automatic Dolby-E frame alignment in P50 and P59.84 standards.
- Audio delay and Dolby-E position in 59.94Hz formats fine tuned.
- IO delay default 1 frame instead of 1.5

Software version 7652
Hardware version 0101, 0102
Platform SYGDG2
Date 01-06-2017
Filename SYGDG2_2-0101to0102-7652-service.zip

- Lip sync corrected with add_on card.
- Automatic Dolby-E frame alignment in P50 and P59.84 standards.
- Audio delay and Dolby-E position in 59.94Hz formats fine tuned.
- IO delay default 1 frame instead of 1.5

Software version 7650
Hardware version 0203, 0204
Platform SYGDG3
Date 13-03-2017
Filename gdg3-gxt-0203to0204-7650-service.zip

- fixed: Stripes in picture in 1080P down-conversion.

Software version 7650
Hardware version 0101, 0102
Platform SYGDG2
Date 13-03-2017
Filename SYGDG2_2-0101to0102-7650-service.zip

- fixed: Stripes in picture in 1080P down-conversion.

Software version 7350
Hardware version 0203, 0204
Platform SYGDG3
Date 29-01-2016
Filename gdg3-gxt-0203to0204-7350-service.zip

- added: OP47 de-embedder line selection.
- fixed: transparency for OP47/wst with dummy headers and insertion in wrong field.
- fixed: S2016 detection and responsiveness to noVI/WSS control setting. Setting now acts for VI, WSS and S2016 control modes.
- fixed: frame accurate preset switching for s2016, VI and WSS control input.
- fixed: Green/Magenta line on right side of picture in 1080i50 transparent mode.
- fixed: Frame or field accurate S2016, WSS and VI data insertion.
- fixed: GPI latched / nonlatched was working reversed.
- added: GPI input debouncing time setting.
- fixed: Occasional occurrence of a black, corrupted or old video frame.
- fixed: Manual override (via Cortex/ACP) of an automatically chosen preset, i.e. controlled by s2016.

Software version 7350
Hardware version 0101, 0102
Platform SYGDG2
Date 29-01-2016
Filename SYGDG2_2-0101to0102-7350-service.zip

- added: OP47 de-embedder line selection.
- fixed: transparency for OP47/wst with dummy headers and insertion in wrong field.
- fixed: S2016 detection and responsiveness to noVI/WSS control setting. Setting now acts for VI, WSS and S2016 control modes.
- fixed: frame accurate preset switching for s2016, VI and WSS control input.
- fixed: Green/Magenta line on right side of picture in 1080i50 transparent mode.
- fixed: Frame or field accurate S2016, WSS and VI data insertion.
- fixed: GPI latched / nonlatched was working reversed.
- added: GPI input debouncing time setting.
- fixed: Occasional occurrence of a black, corrupted or old video frame.
- fixed: Manual override (via Cortex/ACP) of an automatically chosen preset, i.e. controlled by s2016.

Software version 6941
Hardware version 0203, 0204
Platform SYGDG3
Date 20-02-2015
Filename SYGDG2_2-0203to0204-6941-service.zip

This card may be updated through the front ethernet connector on the card, which is quicker as compared to programming with Cortex / Synapse setup. For instructions please refer to the Synapse module reprogramming guide (available on <http://www.axon.tv/EN/support/downloads/manuals>) under Chapter 2 re-programming Linux based cards or contact support.

Included in the zipfile are the Cortex Layout Forms (CLF files), please copy them to your cortex installation directory for the latest graphical user interface : {...Cortex_install_dir...}\Forms\Device\{filename.clf}

Fixed issues:
- Added missing lowpass filter setting for output B.

Software version 6941
Hardware version 0101, 0102
Platform SYGDG2
Date 20-02-2015
Filename SYGDG2_2-0101to0102-6941-service.zip

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Fixed issues:
- Added missing lowpass filter setting for output B.

Software version 6841
Hardware version 0203, 0204
Platform SYGDG3
Date 13-02-2015
Filename SYGDG2_2-0203to0204-6841-service.zip

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Included in the zipfile are the Cortex Layout Forms (CLF files), please copy them to your cortex installation directory for the latest graphical user interface : {.....Cortex_install_dir....}\Forms\Device\{filename.clf}

Fixed issues:
- Relay bypass I/O-panel (BHX19) not switching.
- For the 0203 and 0204 hardware the colorbar output was malfunctioning. Also the image quality was slightly compromised due to corrupt filter values.
- Sporadic occurrence of old, black or corrupted video frames.
- Robustness for OP47 and WST handling when packets are inserted into the wrong field.
- For 60 Hz signals with CC present, the CC status was toggling constantly.
- Conversion of 1080i60 signals to 1080p24 and 1080PsF24.
- Conversion of 1080p24 signals to 1080i60.

Software version 6841
Hardware version 0101, 0102
Platform SYGDG2
Date 13-02-2015
Filename SYGDG2_2-0101to0102-6841-service.zip

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Fixed issues:
- Relay bypass I/O-panel (BHX19) not switching.
- For the 0203 and 0204 hardware the colorbar output was malfunctioning. Also the image quality was slightly compromised due to corrupt filter values.
- Sporadic occurrence of old, black or corrupted video frames.
- Robustness for OP47 and WST handling when packets are inserted into the wrong field.
- For 60 Hz signals with CC present, the CC status was toggling constantly.
- Conversion of 1080i60 signals to 1080p24 and 1080PsF24.
- Conversion of 1080p24 signals to 1080i60.

Software version 6839
Hardware version 0101, 0102
Platform SYGDG2
Date 30-01-2015
Filename SYGDG2_2-0101to0102-6839-service.zip

This card may be updated through the front ethernet connector on the card, which is quicker as compared to programming with Cortex / Synapse setup. For instructions please refer to the Synapse module reprogramming guide (available on <http://www.axon.tv/EN/support/downloads/manuals>) under Chapter 2 re-programming Linux based cards or contact support.

Included in the zipfile are the Cortex Layout Forms (CLF files), please copy them to your cortex installation directory for the latest graphical user interface : {.....Cortex_install_dir....}\Forms\Device\{filename.clf}

Fixed issues:
* Relay bypass I/O-panel not switching

Software version 6839
Hardware version 0203, 0204
Platform SYGDG3
Date 30-01-2015
Filename SYGDG2_2-0203to0204-6839-service.zip

This card may be updated through the front ethernet connector on the card, which is quicker as compared to programming with Cortex / Synapse setup. For instructions please refer to the Synapse module reprogramming guide (available on <http://www.axon.tv/EN/support/downloads/manuals>) under Chapter 2 re-programming Linux based cards or contact support.

Included in the zipfile are the Cortex Layout Forms (CLF files), please copy them to your cortex installation directory for the latest graphical user interface : {.....Cortex_install_dir....}\Forms\Device\{filename.clf}

Fixed issues:
* Relay bypass I/O-panel not switching

Software version 6739
Hardware version 0203, 0204
Platform SYGDG3
Date 29-10-2014
Filename SYGDG2_2-0203to0204-6739_service.zip

This card may be updated through the front ethernet connector on the card, which is quicker as compared to programming with Cortex / Synapse setup. For instructions please refer to the Synapse module reprogramming guide (available on <http://www.axon.tv/EN/support/downloads/manuals>) under Chapter 2 re-programming Linux based cards or contact support.

Included in the zipfile are the Cortex Layout Forms (CLF files), please copy them to your cortex installation directory for the latest graphical user interface : {.....Cortex_install_dir....}\Forms\Device\{filename.clf}

Fixed: OP47 and WST transcoding and buffering. Now, the card is able to handle 5 SDP packets per frame, and correctly translate it into WST or OP47 when applicable. This should fix sporadically missing subtitle updates.
Added: Robustness to OP47 inserted in the wrong field.
Fixed: VANC transparency bug introduced in version 5932.

Software version 6739
Hardware version 0101, 0102
Platform SYGDG2
Date 29-10-2014
Filename SYGDG2_2-0101to0102-6739-service.zip

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Fixed: OP47 and WST transcoding and buffering. Now, the card is able to handle 5 SDP packets per frame, and correctly translate it into WST or OP47 when applicable. This should fix sporadically missing subtitle updates.
Added: Robustness to OP47 inserted in the wrong field.
Fixed: VANC transparency bug introduced in version 5932.

Software version 6534
Hardware version 0101, 0102
Platform SYGDG2
Date 08-04-2014
Filename SYGDG2_2-0101to0102-6534-service.zip

This card may be updated through the front ethernet connector on the card, which is quicker as compared to programming with Cortex / Synapse setup. For instructions please refer to the Synapse module reprogramming guide (available on <http://www.axon.tv/EN/support/downloads/manuals>) under Chapter 2 re-programming Linux based cards or contact support.

Included in the zipfile are the Cortex Layout Forms (CLF files), please copy them to your cortex installation directory for the latest graphical user interface : {.....Cortex_install_dir....}\Forms\Device\{filename.clf}

Added: EDH insertion for SD output.
Fixed: Sporadic audio issues with some hardware, resulting in audio glitches.
Fixed: Output flag VI now shows correct value for output B.
Fixed: The audio did a fade in/out every 30 seconds or so. Occured only in release 5829, which has been made unavailable.
Fixed: Occasional missing audio after changing the card's video output format.
Fixed: Second output generating errors in SD: Occured only in release 5829, which has been made unavailable.
Fixed: CRC error was detected when switching signals on the input at the switchline. The switchline is now excluded from the CRC error detection.
Fixed: Dolby Guard band alignment. Now, when the dolby guard band is at the right place in time, the guard band is maintained, even if the card is up-,down- or cross-converting video formats.
Fixed: Audio fade in/out due to a framedrop or repeat is now disabled for non-PCM signals, preventing data corruption.
Fixed: The audio synchroniser tracks the video delay more accurately now, resyncing the audio with the video if a 2 sample discrepancy is reached. This used to be 32 samples. Now, some hysteresis is maintained, whilst keeping the guard band in place for freerunning inputs with Dolby E.
Fixed: Occasionally corrupt audio after switching signals on the input.
Fixed: The Aspect Ratio flag bit for s2016 output is now set correctly according the video output format.
Fixed: Improved the granularity of the audio delay control setting. In practice the granularity is now 2 audio samples.
Please note: Some of these fixes have been implemented in intermediate releases, often limited in functionality. This release combines all the fixes and restores full functionality.

Software version 5323
Hardware version 0101, 0102
Platform SYGDG2
Date 19-12-2012
Filename SYGDG2_2-0101to0102-5323-service.zip

This card may be updated through the front ethernet connector on the card, which is quicker as compared to programming with Cortex / Synapse setup. For instructions please refer to the Synapse module reprogramming guide (available on <http://www.axon.tv/EN/support/downloads/manuals>) under Chapter 2 re-programming Linux based cards or contact support.

Included in the zipfile are the Cortex Layout Forms (CLF files), please copy them to your cortex installation directory for the latest graphical user interface : {.....Cortex_install_dir....}\Forms\Device\{filename.clf}

Fixed: Occasional loss of audio after switching signals on the input.
Fixed: Occasional loss of video after switching signals on the input.
Fixed: website for re-programming Linux based cards.
Added: EDH error detection for SD inputs, CRC error detection for HD/3G inputs.

Software version 5322
Hardware version 0101, 0102
Platform SYGDG2
Date 30-11-2012
Filename SYGDG2_2-0101to0102-5322-service.zip

This card may be updated through the front ethernet connector on the card, which is quicker as compared to programming with Cortex / Synapse setup. For instructions please refer to the Synapse module reprogramming guide (available on <http://www.axon.tv/EN/support/downloads/manuals>) under Chapter 2 re-programming Linux based cards or contact support.

Included in the zipfile are the Cortex Layout Forms (CLF files), please copy them to your cortex installation directory for the latest graphical user interface : {.....Cortex_install_dir....}\Forms\Device\{filename.clf}

Added Closed captioning detection and insertion.
Added Audio Phase Alignment.
Fixed Reference selection not working.
Fixed website for re-programming Linux based cards.

Software version 5122
Hardware version 0101, 0102
Platform SYGDG2
Date 01-11-2012
Filename SYGDG2_2-0101to0102-5122-service.zip

This card may be updated through the front ethernet connector on the card, which is quicker as compared to programming with Cortex / Synapse setup. For instructions please refer to the Synapse module reprogramming guide (available on <http://www.axon.tv/EN/support/downloads/manuals>) under Chapter 2 re-programming Linux based cards or contact support.

Included in the zipfile are the Cortex Layout Forms (CLF files), please copy them to your cortex installation directory for the latest graphical user interface : {.....Cortex_install_dir....}\Forms\Device\{filename.clf}

Added Closed captioning detection and insertion

Software version 4521
Hardware version 0101, 0102
Platform SYGDG2
Date 08-08-2012
Filename SYGDG2_2-0101to0102-4521-service.zip

This card may be updated through the front ethernet connector on the card, which is quicker as compared to programming with Cortex / Synapse setup. For instructions please refer to the Synapse module reprogramming guide (available on <http://www.axon.tv/EN/support/downloads/manuals>) under Chapter 2 re-programming Linux based cards or contact support.

Included in the zipfile are the Cortex Layout Forms (CLF files), please copy them to your cortex installation directory for the latest graphical user interface : {.....Cortex_install_dir....}\Forms\Device\{filename.clf}

Fixed: Missing first active video line for SD525, 1080i50 and SD625 outputs.

Fixed: Improved vertical offset of the image for several format conversions.

Fixed: Audio direct path got shuffled or muted due to group settings set for the processed audio path.

Fixed: WST run-in tolerance. Now the card can handle WST with 6,7 or 8 WST run-in pulses, also allowing for single bit errors in the framing code detection related to the WST run-in detection.

Software version 4218
Hardware version 0101, 0102
Platform SYGDG2
Date 16-04-2012
Filename SYGDG2_2-0101to0102-4218-service.zip

This card may be updated through the front ethernet connector on the card, which is quicker as compared to programming with Cortex / Synapse setup. For instructions please refer to the Synapse module reprogramming guide (available on <http://www.axon.tv/EN/support/downloads/manuals>) under Chapter 2 re-programming Linux based cards or contact support.

Included in the zipfile are the Cortex Layout Forms (CLF files), please copy them to your cortex installation directory for the latest graphical user interface : {.....Cortex_install_dir....}\Forms\Device\{filename.clf}

- Added timecode insertion option to switch timecode on/off

Software version 3918
Hardware version 0101, 0102
Platform SYGDG2
Date 31-01-2012
Filename SYGDG2_2-0101to0102-3918-service.zip

This card may be updated through the front ethernet connector on the card, which is quicker as compared to programming with Cortex / Synapse setup. For instructions please refer to the Synapse module reprogramming guide (available on <http://www.axon.tv/EN/support/downloads/manuals>) under Chapter 2 re-programming Linux based cards or contact support.

Included in the zipfile are the Cortex Layout Forms (CLF files), please copy them to your cortex installation directory for the latest graphical user interface : {.....Cortex_install_dir....}\Forms\Device\{filename.clf}

Fixed: Horizontal alignment of the image.

Added: Active input status item.

Software version 3317
Hardware version 0101, 0102
Platform SYGDG2
Date 13-10-2011
Filename SYGDG2_2-0101to0102-3317-service.zip

This card may be updated through the front ethernet connector on the card, which is quicker as compared to programming with Cortex / Synapse setup. For instructions please refer to the Synapse module reprogramming guide (available on <http://www.axon.tv/EN/support/downloads/manuals>) under Chapter 2 re-programming Linux based cards or contact support.

Included in the zipfile are the Cortex Layout Forms (CLF files), please copy them to your cortex installation directory for the latest graphical user interface : {...Cortex_install_dir...}\Forms\Device\{filename.clf}

Fixed: Horizontal alignment of the image.
Added: Active input status item.

Software version 2612
Hardware version 0101, 0102
Platform SYGDG2
Date 27-06-2011
Filename SYGDG2_2-0101to0102-2612-service.zip

This card may be updated through the front ethernet connector on the card, which is quicker as compared to programming with Cortex / Synapse setup. For instructions please refer to the Synapse module reprogramming guide (available on <http://www.axon.tv/EN/support/downloads/manuals>) under Chapter 2 re-programming Linux based cards or contact support.

Please find the Restricted Delivery Announcement included in this download.

Also included are the Cortex Layout Forms (CLF files), please copy them to your cortex installation directory for the latest graphical user interface : {...Cortex_install_dir...}\Forms\Device\{filename.clf}

Added:
- Anamorphic scaling with 702 pixels in SD-SDI instead of 720.
- Heartbeat for audio and video memory to prevent lock-up.

Software version 2009
Hardware version 0101, 0102
Platform SYGDG2
Date 21-02-2011
Filename SYGDG2_2-0101to0102-2009-service.zip

This card may be updated through the front ethernet connector on the card, which is quicker as compared to programming with Cortex / Synapse setup. For instructions please refer to the Synapse module reprogramming guide (available on <http://www.axon.tv/EN/support/downloads/manuals>) under Chapter 2 re-programming Linux based cards or contact support.

Please find the Restricted Delivery Announcement included in this download.

Also included are the Cortex Layout Forms (CLF files), please copy them to your cortex installation directory for the latest graphical user interface : {...Cortex_install_dir...}\Forms\Device\{filename.clf}

Added:
- OP47 and WST detection.
- OP47 to WST conversion and viceversa.
- Vertical Ancillary (VANC) data transparency. For the VANC transparency the user may manually select 6 lines to be carried through the card transparently. This only works when the card is in transparent mode, when the input and output format are the same.
- Input loss selection. The user may select what action the card will take upon physically losing the input: Freeze the image, show a colorbar, zoneplate, grey, black or green image.
- Low Pass Filtering for downconversion.

Software version 1405
Hardware version 0101, 0102
Platform SYGDG2
Date 03-06-2010
Filename SYGDG2_2-0101to0102-1405-service.spf

Fixed: VITC frame number bug. Frame counter was lagging with respect to the seconds counter.
Fixed: Black output bug. This issue could occur when video signals are (re-)applied to the inputs of the card. (i.e. after switching off/on Sony CCU's)

Software version 1204
Hardware version 0100, 0101, 0102
Platform SYGDG2
Date 05-03-2010
Filename SYGDG2_2-0101to0102-1204-service.zip

First full release.
