Release notes SYGDG1-SYGDG1B

These release notes are applicable to the following modules:

- 2GF100
- 2GF110
- 2HF100
- 2HF110
- 2SF100
- 2SF110
- GFS010
- GFS100
- GFS110
- HFS010
- HFS100
- HFS110
- SFS010
- SFS100
- SFS110

Software version	6246
Hardware version	0301, 0302, 0303, 0304
Platform	SYGDG1B
Date	4-6-2019
Filename	SYGDG1_2-0301to0304-6246-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 this download 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 wrong generated menu in previous version
Solved: Output B would break when having format on auto or switching formats.
RDA: Delay for all twin products are half of what is mentioned in the manual.
1080 signals is 15 frames maximum
720 signals is 30 frames maximum
SD signals is 62 frames maximum

Software version	6246
Hardware version	0100, 0200, 0201
Platform	SYGDG1
Date	4-6-2019
Filename	SYGDG1_2-0100to0201-6246-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 this download 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 wrong generated menu in previous version

Software version	6146
Hardware version	0301, 0302, 0303, 0304
Platform	SYGDG1B
Date	25-3-2019
Filename	SYGDG1_2-0301to0304-6146-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 this download 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}

Solved: Output B would break when having format on auto or switching formats.
RDA: Delay for all twin products are half of what is mentioned in the manual.
1080 signals is 15 frames maximum
720 signals is 30 frames maximum
SD signals is 62 frames maximum

Software version	6146
Hardware version	0100, 0200, 0201
Platform	SYGDG1
Date	25-3-2019
Filename	SYGDG1_2-0100to0201-6146-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 this download 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}

Solved: Output B would break when having format on auto or switching formats.
RDA: Delay for all twin products are half of what is mentioned in the manual.
1080 signals is 15 frames maximum
720 signals is 30 frames maximum
SD signals is 62 frames maximum

Software version	6045
Hardware version	0301, 0302, 0303, 0304
Platform	SYGDG1B
Date	07-05-2018
Filename	SYGDG1_2-0301to0304-6045-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 this download 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}

Solved: When the second input is disturbed or disconnected the the first output was disturbed.

Software version	6045
Hardware version	0100, 0200, 0201
Platform	SYGDG1
Date	07-05-2018
Filename	SYGDG1_2-0100to0201-6045-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 this download 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}

Solved: When the second input is disturbed or disconnected the the first output was disturbed.

Software version	6044
Hardware version	0301, 0302, 0303, 0304
Platform	SYGDG1B
Date	05-03-2018
Filename	SYGDG1_2-0301to0304-6044-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 this download 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}

Fixes:
* Excessive audio restore time after video input interruption, when set to large F-delay value
* Improved tacking output pulse, when F-delay set to odd value (also for P50/P60 Sync two frame mode)

Software version	6044
Hardware version	0100, 0200, 0201
Platform	SYGDG1
Date	05-03-2018
Filename	SYGDG1_2-0100to0201-6044-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 this download 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}

Fixes:
* Excessive audio restore time after video input interruption, when F-delay set to large value
* Improved tacking output pulse, when F-delay set to odd value (also for P50/P60 Sync two frame mode)

Software version	6042
Hardware version	0301, 0302, 0303, 0304
Platform	SYGDG1B
Date	28-08-2017
Filename	SYGDG1_2-0301to0304-6042-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 this download 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}

Fixes:
* Fixed two pixel shift for 720p60 format in synchronizer function.
* Added option to lock 1080p50 (1080p60) video output signal to 1080i50 (1080i60) tri-level sync.
* Fixed s352 field 2 errors for 1080i formats in case incoming video signal contains s352 packets in line 573 (by blanking s352 packets in line 573, before inserting s352 packets in line 10 and 572 in accordance with SMPTE ST 352-2013).

Software version 6042

Hardware version 0100, 0200, 0201

Platform SYGDG1

Date 28-08-2017

Filename SYGDG1_2-0100to0201-6042-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 this download 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}

Fixes:
* Fixed two pixel shift for 720p60 format in synchronizer function.
* Added option to lock 1080p50 (1080p60) video output signal to 1080i50 (1080i60) tri-level sync.
* Fixed s352 field 2 errors for 1080i formats in case incoming video signal contains s352 packets in line 573 (by blanking s352 packets in line 573, before inserting s352 packets in line 10 and 572 in accordance with SMPTE ST 352-2013).

Software version 6040

Hardware version 0301, 0302, 0303, 0304

Platform SYGDG1B

Date 18-01-2016

Filename SYGDG1_2-0301to0304-6040-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 this download 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: Color-correction inlcuding line 560 and line 1123.

Software version 6040

Hardware version 0100, 0200, 0201

Platform SYGDG1

Date 18-01-2016

Filename SYGDG1_2-0100to0201-6040-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 this download 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: Color-correction inlcuding line 560 and line 1123.

Software version 6039

Hardware version 0301, 0302, 0303, 0304

Platform SYGDG1B

Date 07-09-2015

Filename SYGDG1_2-0301to0304-6039-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 this download 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: Ticking audio when using card with 60Hz video formats, introduced in version 6038.

Software version	6039
Hardware version	0100, 0200, 0201
Platform	SYGDG1
Date	07-09-2015
Filename	SYGDG1_2-0100to0201-6039-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 this download 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: Ticking audio when using card with 60Hz video formats, introduced in version 6038.

Software version	6038
Hardware version	0301, 0302, 0303, 0304
Platform	SYGDG1B
Date	25-03-2015
Filename	SYGDG1_2-0301to0304-6038-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 this download 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: Asynchronous Input switch handling.
Fixed: Switching between SD and HD signals sometimes the audio stopped working

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Software version	6038
Hardware version	0100, 0200, 0201
Platform	SYGDG1
Date	25-03-2015
Filename	SYGDG1_2-0100to0201-6038-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 this download 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: Asynchronous Input switch handling.
Fixed: Switching between SD and HD signals sometimes the audio stopped working

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Software version	6034
Hardware version	0301, 0302, 0303
Platform	SYGDG1B
Date	19-11-2013
Filename	SYGDG1_2-0301to0303-6034-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 this download 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: CVBS input was not working on the last release.
Fixed: Sporadic audio issues with some hardware, resulting in audio glitches.

Software version 6034

Hardware version 0100, 0200, 0201

Platform SYGDG1

Date 19-11-2013

Filename SYGDG1_2-0100to0201-6034-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 this download 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: CVBS input was not working on the last release.
Fixed: Sporadic audio issues with some hardware, resulting in audio glitches.

Software version 5933

Hardware version 0100, 0200, 0201

Platform SYGDG1

Date 16-07-2013

Filename SYGDG1_2-0100to0201-5933-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 this download 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: Corruption of video, metadata and audio in passmode with hardware 0200. This was best seen as corrupted audio. Occurence rate was hardware dependent, some cards were unaffected, some were in moderation, others experienced more frequent (audio) corruption. In practice, this is due to the video memory corrupting data, including the passed (untouched) audio. This was introduced at version 5429, 4928 was OK.
Fixed: Dolby Guard band allignment. Now, when the dolby guard band is at the right place in time, the guard band is maintained at the correct position for asynchronous inputs.
Fixed: Increased minimum delay of framesync, delay is now equal to minimum delay of audio sync, when audio is set to processed.
Fixed: Improved video output to reference offset.

Software version 5933

Hardware version 0301, 0302

Platform SYGDG1B

Date 16-07-2013

Filename SYGDG1_2-0301to0302-5933-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 this download 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: Corruption of video, metadata and audio in passmode with hardware 0200. This was best seen as corrupted audio. Occurence rate was hardware dependent, some cards were unaffected, some were in moderation, others experienced more frequent (audio) corruption. In practice, this is due to the video memory corrupting data, including the passed (untouched) audio. This was introduced at version 5429, 4928 was OK.
Fixed: Dolby Guard band allignment. Now, when the dolby guard band is at the right place in time, the guard band is maintained at the correct position for asynchronous inputs.
Fixed: Increased minimum delay of framesync, delay is now equal to minimum delay of audio sync, when audio is set to processed.
Fixed: Improved video output to reference offset.

Software version	4928
Hardware version	0100, 0200
Platform	SYGDG1
Date	25-09-2012
Filename	SYGDG1_2-HFS-0100to0200-4928-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.

New Features:
- added audio handling feature to Blank, Pass or Process audio
- changed behaviour for switching outside the switchline position
- solved audio disturbance due to format switching

Software version	4827
Hardware version	0100, 0200
Platform	SYGDG1
Date	05-09-2012
Filename	SYGDG1_2-HFS-0100to0200-4827-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.

New Features:
- Solved missing LevelB option in 3G menu's

Software version	4326
Hardware version	0100, 0200
Platform	SYGDG1
Date	01-05-2012
Filename	SYGDG1_2-HFS-0100to0200-4326-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.

New Features:
- Added active input status.
- Added Audio Phase alignment option
- Added automatic switch over functionality
- Changed tracking pulse to follow Frame Synchronizer delay only
- adjusted card output timing

Software version	4023
Hardware version	0100, 0200
Platform	SYGDG1
Date	02-04-2012
Filename	SYGDG1_2-0100to0200-4023-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.

New Features:
- Added audio status bits overwrite to ensure correct audio status bits.

Software version	3922
Hardware version	0100, 0200
Platform	SYGDG1
Date	17-02-2012
Filename	SYGDG1_2-0100to0200-3922-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.

New Features:
- Solved audio disturbance on format change

Software version	3820
Hardware version	0100, 0200
Platform	SYGDG1
Date	08-12-2011
Filename	SYGDG1_2-HFS-0100to0200-3820-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.

New Features:
- Added Level-B 3G output mapping

Software version	3217
Hardware version	0100, 0200
Platform	SYGDG1
Date	13-10-2011
Filename	SYGDG1_2-HFS-0100to0200-3217-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.

Fixed bugs: Improved colorbar in SD

New Features:
- Copy time code from single input to both outputs
- Switch output on input loss
- Added 1 and 5 seconds freeze option

Software version	1913
Hardware version	0100, 0200
Platform	SYGDG1
Date	31-01-2011
Filename	SYGDG1_2-HFS-0100to0200-1913-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.

Fixed bugs:
Card into boot mode when zoneplate was selected on AUTO-A input format.

Software version	1713
Hardware version	0100, 0200
Platform	SYGDG1
Date	17-11-2010
Filename	SYGDG1_2-HFS-0100to0200-1713-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.

Fixed bugs:
ANC Data Processing not transparent
Improved frame/field freeze on imput loss.

Added features:
Action on input loss.
Timecode per output channel.

Software version	1512
Hardware version	0100, 0200
Platform	SYGDG1
Date	29-09-2010
Filename	SYGDG1_2-HFS-0100to0200-1512-service.spf

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.

Fixed bugs:
No audio in SD-SDI.

Software version	1511
Hardware version	0100, 0200
Platform	SYGDG1
Date	04-08-2010
Filename	SYGDG1_2-0100to0200-1511-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.

Fixed bugs:
CRC error on output with format change or bad signals on the input.
The VITC timecode frame counter was lagging the seconds counter.
RGB gain control order corrected.
Audio corruption after no or bad input signal.
When switching the input signal, or connecting signal via a patch pannel, or booting up equipment feeding the card, the audio and/or video might stop working. Also, the channel order of the audio might get corrupted.
A couple of audio errors (mute) per hour in SD-SDI when Audio embedding is off. (audio through frame sync)
Extra write pointer set added at start of active picture to handle switching errors more than one line. Only for 1080i59.94, 1080i50, 720p60 and 720p50.
ANC blanked on input loss.
EDH added for SD-SDI.
Card in goes into minimum delay (3 lines) when set to input lock.
Audio delay above 85ms works now correct

Added features:
OSD text added.
Manual freeze added
Auto format added

Software version	0902
Hardware version	0100, 0200
Platform	SYGDG1
Date	11-12-2009
Filename	SYGDG1_2-0100to0200-0902-service.zip

First full release.

Fixed: Correct analog value of switch line detection
Fixed: Audio of input 2 embedded on output 1, and audio of input 1 on output 2