



# NEW PRODUCTS AND FUNCTIONALITY 2013

- **FAB TELETEXT DATA GENERATOR FOR HD-SDI**
  - Insertion of teletext into HD-SDI as OP47 and SMPTE 2031
  - Real time teletext decoding from HD-SDI as OP47 and SMPTE 2031
- **FT-HT 11 HD-SDI PCI-EXPRESS CARD**
  - The card has a bypass relay and can be used in any PC/Server for
  - Insertion of open subtitles into SD/HD-SDI
  - Insertion of closed captions CEA-608 & CEA-708 into SD/HD-SDI
  - Decoding of teletext subtitles from SD/HD-SDI
- **FAB SUBTITLER**
  - Improved playback of video files: MPEG1/2, WMV, MP4, MXF
  - Teletext subtitle decoding from MXF files
  - Webservice for control of insertion of subtitles into video files
- **FAB SUBTITLER BCAST**
- **FAB WIKI**
- **FAB DVB INTERFACE**
  - Conversion of teletext from SD/HD-SDI to ASI/IP with PCR sync

For detailed information visit: [www.fab-online.com](http://www.fab-online.com)

# FAB TELETEXT DATA GENERATOR FOR HD-SDI

**FAB Teletext Data Generator and FAB Teletext Data Bridge products are used for insertion of teletext and teletext subtitles into SDI video.**

- New versions of FAB Teletext Data Generator FT-DGS 5 and FAB Teletext Data Bridge FT-DBR 5
- Insertion of teletext data into HD-SDI and SD-SDI is supported
- SMPTE 2031 and OP47 standards are supported for HD-SDI
- Real time teletext decoding is supported for combining multiple teletext SDI sources
- Bypass relay is included in SDI insertion video path for broadcast applications
- The product is based on HP ProLiant DL360 Server with special FAB plug-in card
- Redundant power supply and mirrored RAID-1 hard disk are delivered as standard
- Compatible with older FT-DGS 4, FT-DBR 4 and FT-DGS 2.5 models



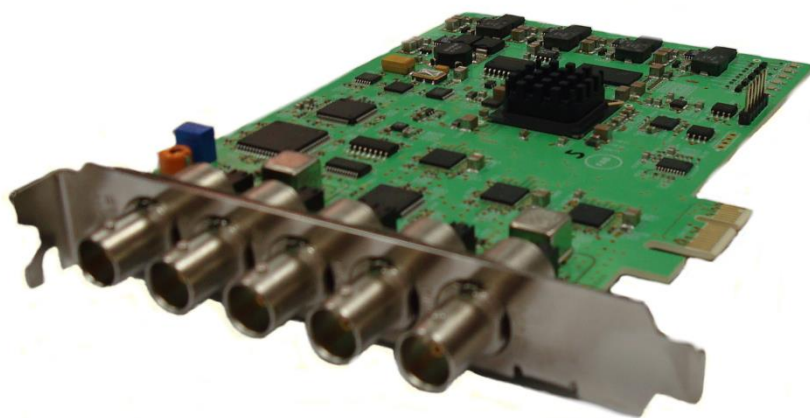
# FT-HT 11

## HD-SDI PCI EXPRESS CARD

The new PCI-Express card has a bypass relay and can be used in any PC/Server with FAB Subtitler for

- Insertion of open subtitles into SD/HD-SDI
- Insertion of closed captions CEA-608 & CEA-708 into SD/HD-SDI
- Decoding of teletext subtitles from SD/HD-SDI (VBI / OP47 / SMPTE2031)
- 2 Video inputs and 1 video output
- Display of video on PC monitor

Multiple cards can be installed in a single PC when multiple channels are transmitted by multiple FAB Subtitler instances.



# FAB SUBTITLER

## Improved playback of video files: MPEG1/2, WMV, MP4, MXF

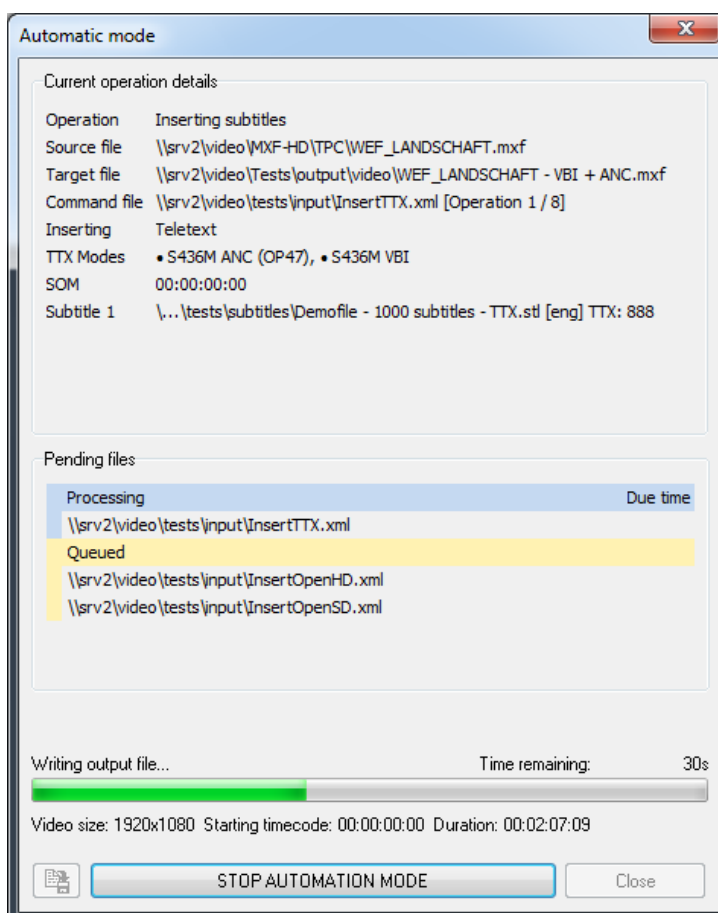
- MPEG1 and WMV files are processed internally which results in much faster operation
- MPEG4 files with HE-AAC/v2 audio are supported
- MXF files with h264, DNxHD (VC-3), DVCPPro and AAC audio codecs are supported

## Teletext subtitle decoding from MXF files

- FAB Subtitler PRO/LIVE/MPEG can open HD MXF files directly and play the video and at the same time display the decoded teletext subtitles
- This functionality enables checking the presence and correctness of teletext subtitles in MXF video files

## Webservice for control of insertion of subtitles into video

- A webservice can be activated so that REST API functions can be called to start the insertion of subtitles into video files
- A watchfolder operation mode can be selected so that insertion of subtitles into video files or conversion of subtitle files can be started automatically as soon as source files are present in the watchfolder



# FAB SUBTITLER BCAST

## Improved support for FAB FT-HT 11 PCI-Express card

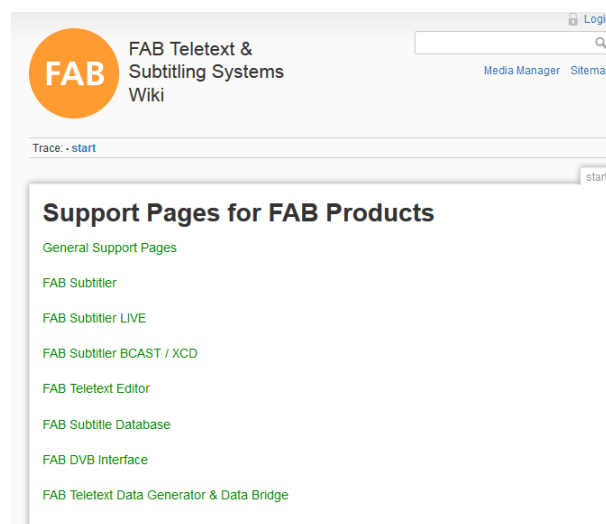
- SD/HD-SDI Video can be displayed on PC monitor
- ATC timecode and teletext can be read from SD/HD-SDI video
- Main and Aux inputs can be used
- Insertion of CEA-608 and CEA-708 closed captions into SD/HD-SDI

## New and improved functionality

- GPI can be used to change a configuration profile
- List of subtitle files downloaded from database or file server can be defined in a text file
- List of subtitle files downloaded from database or file server can be defined by IDs queried by automation system
- Automatic subtitle source priority can be defined: File / Video / Network in any order of priority
- Allowed subtitle sources can be defined in subtitle database record or in the file playlist.inf

# FAB WIKI

**FAB WIKI page has been created with technical knowledgebase for FAB products. The content of the knowledgebase will be extended in the future.**



# FAB DVB INTERFACE

## Conversion of teletext from SD/HD-SDI to ASI/IP with PCR sync

- Teletext can be received from two SD/HD-SDI inputs of FAB FT-HT 11 cards
- Teletext is converted to DVB stream and can be synchronized to one or multiple PCRs
- Transmission over ASI or IP is supported

The screenshot shows the 'FAB DVB Interface Configuration v3.26' window with the 'Teletext' tab selected. The configuration is for a device named 'FAB teletext'. The 'Input' section is expanded, showing 'Serial number: 000396', 'Teletext interface: FAB FT-HT 11', 'Card number: 1', and 'Input: MAIN'. The 'Output' section is also expanded, showing 'Interface: DTA-2145, slot 0, BNC 1 (top) = ASI IN, BNC 2 (bottom) = ASI OUT', 'Stream PID: 161', 'Video PID: 513', 'PCR PID: 513', 'Reserved bitrate: 450000 b/s', 'Delay: 0 ms', and 'Send before PTS: 0 ms'. At the bottom, there are buttons for 'Add', 'Remove', 'Open log files', 'Delete all log files', 'Load configuration', 'Save configuration', 'OK', 'Cancel', and 'Apply'.

FAB DVB Interface Configuration v3.26

Transmission | PTS Restamping | PID Remapping | **Teletext** | HbbTV | Access | Logging | License

✓ FAB teletext

Name: FAB teletext

Disable

Input Serial number: 000396

Teletext interface: FAB FT-HT 11

Card number: 1 Input: MAIN

Output

Interface: DTA-2145, slot 0, BNC 1 (top) = ASI IN, BNC 2 (bottom) = ASI OUT

Stream PID: 161

Video PID: 513

PCR PID: 513

Reserved bitrate: 450000 b/s

Delay: 0 ms

Send before PTS: 0 ms

Add Remove

Open log files Load configuration OK Cancel Apply

Delete all log files Save configuration

# DETAILED LIST OF NEW AND IMPROVED FUNCTIONALITY OF FAB PRODUCTS

## FAB Subtitler

- Improved video playback over network
- Reading and display of audio graph is faster
- Scene change images are read faster from video
- Improved support for video and audio codecs
- Improved WMV playback and navigation performance
- Improved support for playback of MP4 files (HE-AAC/v2 audio)
- Improved support for playback of MXF files. New supported formats:
  - Video: h264, DNxHD (VC-3), DVCPro
  - Audio: AAC
- Display of video from FAB FT-HT 11 card
- Subtitles can be transmitted as CEA-608 ClosedCaptions in VBI using FAB FT-HT 11 card
- Teletext data can be deleted from MXF files
- Support for reading the timecode from S436M VBI track in MXF files
- Support for insertion of OP47 and/or S2031 to MXF files
- Support for reading and writing of RDD9 (Sony XDCAM) data tracks in MXF files
- Improved compatibility for reading and writing MXF files
- Any combination of audio channels from video files can be selected
- Support for applying an offset to timecodes in automation mode
- Improved automation of subtitle insertion and conversion through watchfolders
  - Using a command.txt file
  - Using xml command files
  - Using video and subtitle files with the same file name
  - Control over a REST API server / webservice
- Operation status overview via an embedded web server
- Xml command file can be saved from Export and Video print dialogs

### **FAB Media Converter**

- Support for MPEG-1 as output video format

### **FAB DVB Interface**

- Implemented SDI to ASI/IP teletext conversion with PCR sync
- Added HbbTV PSI table transmission
- Configurations can be saved and loaded in files
- Implemented interactive removal of non-active PIDs
- ASI signal with inverted polarity is accepted
- Removed support for Linear Systems DVB Master cards

### **FAB Subtitle Database**

- Reduced database size
- Improved speed during XML/STL import
- Improved performance of FAB Subtitler BCAST playlist download
- Connection to the standby database server can be triggered manually in the client
- Errors from log can be sent to the administrator via email