

Multi-channel SD & HD ancillary data insertion



The challenges in multi-channel data encoding

The multi-channel broadcast facility is faced with the challenge of accommodating an increasing channel count in decreasing rack-space – in new builds, it is not always appropriate to accommodate the space and power utilization of traditional single channel video units.

Ancillary data encoding, such as for closed subtitling and ad-insertion cuing, is one of many video processing functions that would ideally integrate into a multi-channel, multi-function video processing solution.

Bringing Softel functions to a generic video processing platform

vFlex™ MC takes the proven VBI and VANC ancillary data processing capabilities of the standalone Softel vFlex product and copies this functionality onto a modular plug-in card format suitable for use in a multi-function, multi-channel video processor chassis.

The vFlex MC modules are designed to operate in standard Axon multi-slot chassis hardware alongside the full range of Synapse™ video and audio plug-in cards.

vFlex MC HSI11 supports the encoding into either SD or HD SDI video of Teletext subtitles which can be formatted in a choice of WST, OP47 or SMPTE2031 standards. It is also possible to encode pre-formed DVB digital subtitles using Teletext to carry the digital subtitles down stream in the transmission network.

vFlex MC HSI12 allows Softel Oliver format ad-insertion cues to be encoded into either SD or HD SDI video signals.

Configuration and monitoring of all Synapse chassis modules is provided by Axon's powerful Cortex PC software.

Benefits

- Modular products for Teletext subtitle encoding and Softel cuing
- 4, 8 & 18 slot chassis options reduce rack space utilization
- Significant power and heat efficiencies
- Compatibility with the full range of Axon Synapse™ video and audio products



High availability

Because there are more important aspects of operations to focus on, vFlex MC has been purpose built with the demands of broadcast in mind. As well as the efficiency and manageability of the unit, high availability is designed-in with dual power supplies and hot swappable fans (8 and 18 slot chassis only). GPI outputs are provided for alarm and power supply failure. Refer to www.axon.tv for full Synapse chassis and product specifications.

Subtitling mode

vFlex MC HS111 is designed to accommodate a TCP/IP Ethernet connection from an external subtitle workstation or subtitle transmission system using the industry standard network Newfor protocol. Teletext subtitles may be encoded in standard SD WST VBI format, in HD VANC OP47 format, or HD VANC SMPTE2031 format. In all cases the user has full control of VBI and VANC TV line assignment, on filler packets, and other transmission settings. Note that the composite preview output is not supported if the card is in HD mode.

Cuing mode

Softel Oliver cues are commonly encoded on pan-continental transmission networks as a means to signal frame accurate local advert insertion timings. vFlex MC HS1112 allows Softel X31 Teletext cues to be signalled on up to six independent GPI closing contact inputs and encoded into SD or HD video. Oliver Teletext cues may be carried across MPEG networks if at least one line pair of Teletext data is enabled on the video encoder hardware. SCTE104 VANC cues may also be supported (on request).

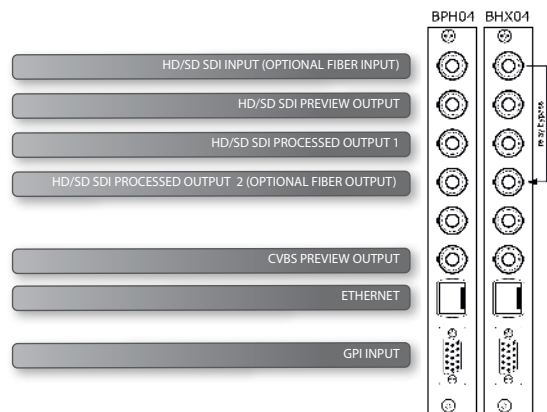
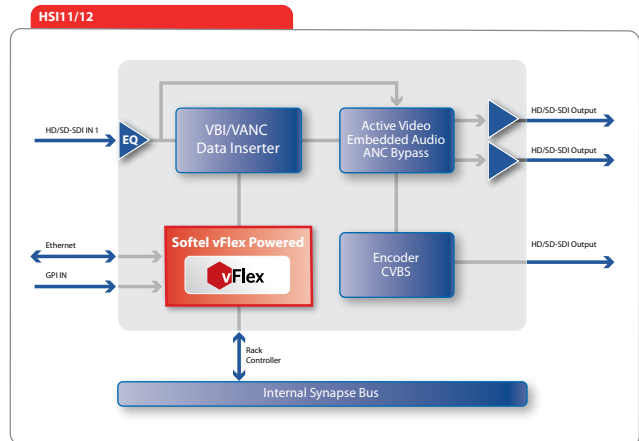
Softel integrated broadcast solutions

The vFlex MC multi-function inserter is part of a family of broadcast products from Softel that include the Swift end-to-end subtitling/captioning solution, from workflow management and subtitle creation through to time-of-air insertion and monitoring.

Contact Softel to find out more or visit our website at www.softelgroup.com

Maintenance, support and services

Support is always a key component when creating an integrated solution, that's why in addition to providing full consultation when delivering a solution, Softel also offers in-house expert support. A tiered range of support options are available, spanning from simple software updates to full 24 x 7 x 365 telephone and on-site support. To discuss your support requirements in more detail please contact your Softel sales representative.



Due to continuous enhancement and development by Softel, product features, designs and specifications are subject to change without notice. Please contact Softel to confirm details of any required functionality or specification. © Copyright Softel Group 2011



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