

# MicroVideo

## HD/SD data inserter/decoder/bridge

### At a glance

- ⇒ Move, copy, insert or read data
- ⇒ Transcode SD to OP47
- ⇒ Simultaneously insert different data
- ⇒ Insert data in real time
- ⇒ 100% compliant with SMPTE and ETS specifications
- ⇒ Monitoring of all data on video signal

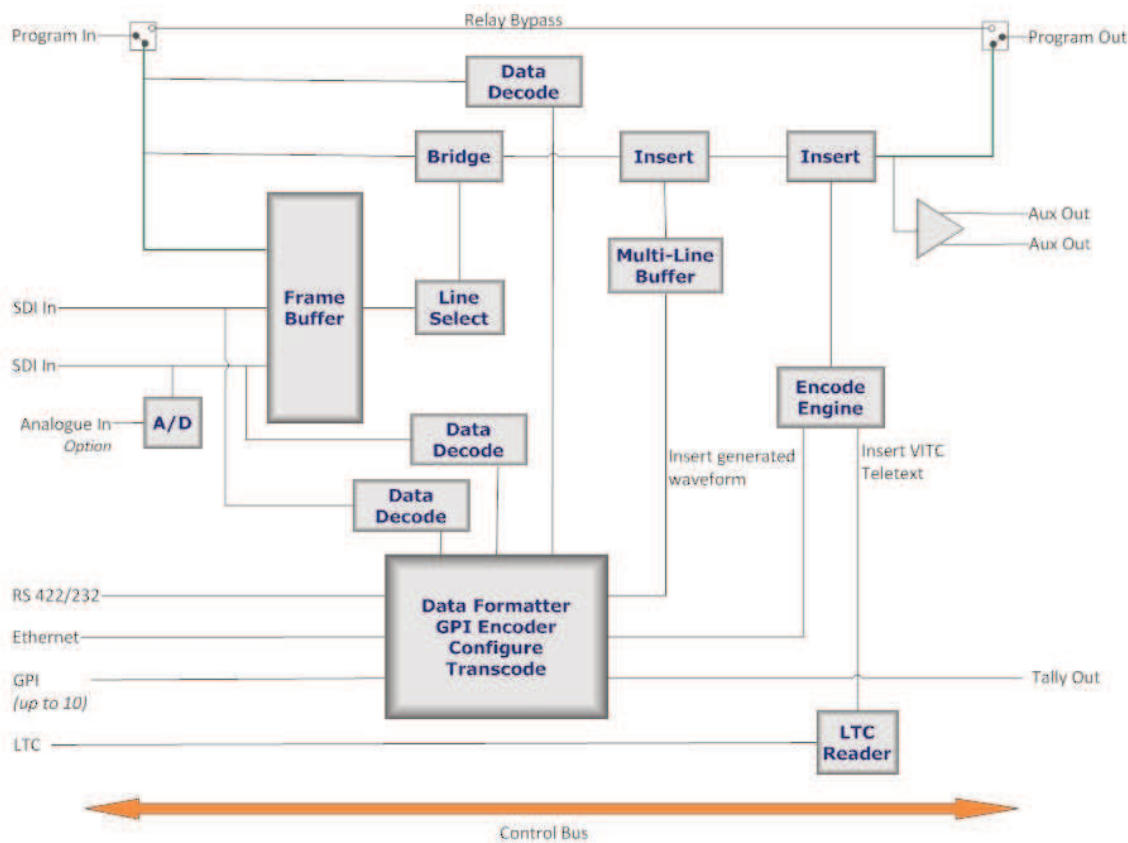
### Applications

- broadcast/transmission centres
- teletext insertion
- closed caption insertion
- remote control signalling
- data manipulation
- data management



Microvideo products are used by the worlds leading broadcasters, some of our customers are listed below:

### Block Diagrams



- BBC
- ITV
- BSkyB
- Arqiva
- S4C
- Channel 4
- SES Astra
- Globecast
- Red Bee Media
- RTE
- Five
- Grass Valley
- Harris
- Globecast
- Red Bee
- CNN
- Disney
- Turner
- TF1
- France2
- Arte
- DSF
- ZDF
- ARD
- RTP
- Rai
- Orange TV
- KBS
- VT4
- NRK
- MTV Networks
- Canal+
- Fox
- Channel 7
- The London Studios
- Pro TV
- LTV
- TVB
- Sony Broadcast
- Scottish Television
- Racetech
- O21 Television
- MTV OY
- Formula One Management
- Clubbing TV
- Channel Television
- Bloomberg
- Barco
- Ascent Media
- SVT
- Showtime
- Virgin Media
- Al Jazeera
- Technicolor

Broadcasters now demand more from every facet of their business, greater return on investment, lower cost of ownership, higher performance and more features. They demand those features are not just 'whistles and bells' but tools that can be used day-in day-out in the broadcast environment.

The Microvideo HDB 300 is a product that meets and exceeds those expectations.

Microvideo is a name synonymous with inserting, reading and managing data within digital video streams. With over 100 different varieties of inserters, decoder and databridges sold over the past 20 years, no one is trusted more by broadcasters to manage their data requirements than Microvideo. The Microvideo HDB 300 takes ALL the

experience of data management within Microvideo and ALL the features of the wide range of inserters, decoders and bridges together with the new emerging HD standards and puts them all on one low cost eurocard.

Read, move, copy, shuffle or blank VBI and VANC data, insert from internally generated waveforms and data (VITC/ATC, VPS, WSS, ITS, AFD) or external data (closed captions, teletext, control signals). With up to 6 HDB 300 cards in a single 1U frame, the HDB 300 is the most cost effective HD/SD inserter, decoder or bridge on the market today.

HDB 300 – the only data inserter/decoder/bridge you will ever need.

**MicroVideo**

## Specification

### Input

SD/HD Serial Video	SMPTE 259M (270Mb/s) SMPTE 292M (1.5Gb/s)
Standard	1080p/59.94, 1080i/59.94, 1080i/50, 720p/50
Number of Inputs	1 program, 2 SDI data
Equalization	Automatic to >150m of Belden 1694A at 1080 50i
Return Loss	> 15dB up to 1.5GHz

### Output

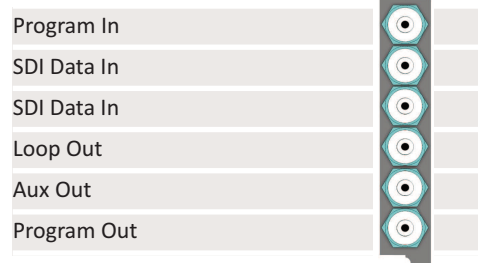
HD Serial Video	As per input
Standard	As per input
Number of Outputs	3 (1 relay bypass protected, 1 broadcast quality monitoring output, 1 loop)
Signal Level	800mV nominal
DC Offset	0V $\pm$ 0.5V
Rise and Fall Time	90ps nominal for HD, 600ps nominal for SD
Overshoot	< 10% of amplitude
Return Loss	> 15dB up to 1.0Gb/s, > 10dB up to 1.5Gb/s
Wideband Jitter	< 0.2UI

### Miscellaneous

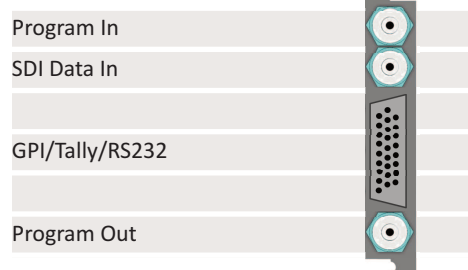
Weight Approx	250g
Operating Temp	0 °C to +50 °C
Dimensions	16 x 100 x 237 mm (HxWxD)
Electrical	Voltage +5VDC

## Rear connections

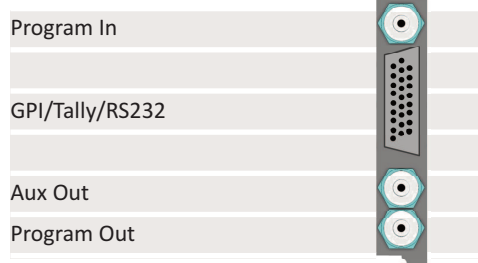
### Standard Option



### With 10+GPI module



### With 10+GPI module



### With analogue

