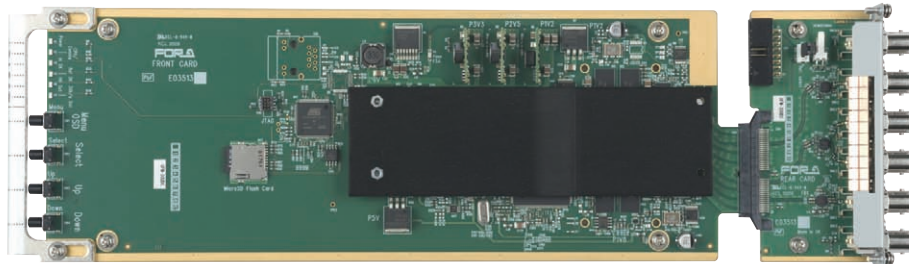


Future Proof  
 3Gbps

3G/HD/SD Up/Down/Cross Converter

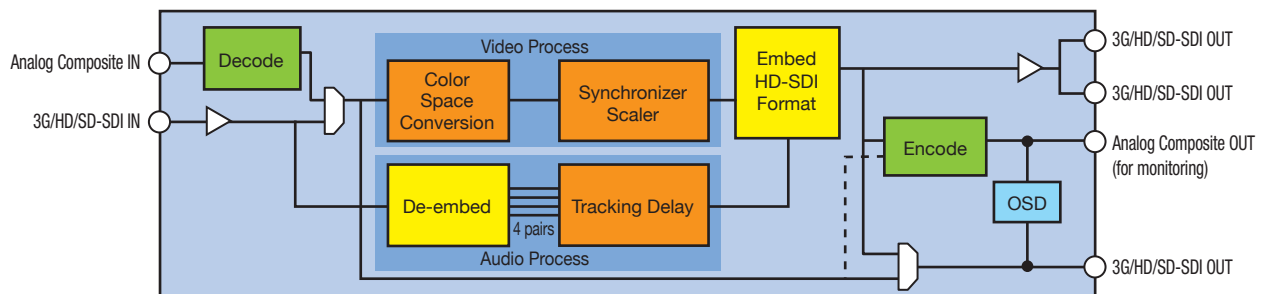
# UFM-30UDC



**UFM-30UDC is an up/down/cross converter, which can be mounted on UFM frame. It is standardly equipped with next-generation broadcast signal interface 3G-SDI and it allows users to convert video signals in a wide variety of formats.**

- Up/down/cross converter equipped with 3G/HD/SD-SDI input/output
- 3G Level A and Level B supported
- 3G/HD/SD-SDI 1 input / 2 outputs and analog composite 1 input
- Additional 3G/HD/SD-SDI output for preview use
- Analog composite output for displaying menu (monitoring also possible)
- Up to 8 channels embedded audio input/output
- Frame synchronizer
- Aspect ratio converter
- On-Screen Display (OSD) available on Preview output

■ Block Diagram



## Specifications

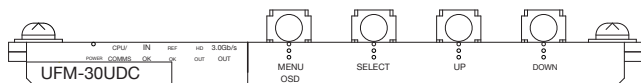
Standard	3G: 1080/59.94p 1080/50p HD: 1080/59.94i, 1080/50i, 720/59.94p 720/50p SD: 525/60 (NTSC) 625/50 (PAL) (Auto Detect) Output frame rate will follow input frame rate (no frame rate conversion is performed).
Video Input	3G-SDI: 3 Gbps (Level A or Level B) or HD-SDI: 1.5 Gbps, or SD-SDI: 270Mbps, 75Ω, BNC x 1 Analog Composite: 1.0 Vp-p, 75Ω, BNC x 1
Reference Input	BB: NTSC: 0.429 Vp-p/PAL: 0.45 Vp-p or Tri-level sync: ±0.3 V (Supply from UFM frame)
Video Output	3G-SDI: 3 Gbps (Level A or Level B), or HD-SDI: 1.5 Gbps, or SD-SDI: 270 Mbps, 75Ω, BNC x 2
Preview Video Output	3G-SDI: 3 Gbps (Level A or Level B), or HD-SDI: 1.5 Gbps, or SD-SDI: 270 Mbps, 75Ω, BNC x 1
OSD Output	Analog Composite NTSC or PAL: 1.0 Vp-p, 75Ω, BNC x 1
Audio Input/Output	Embedded Audio I/O: HD: 8 channel/8 channel (4 channel stereo pair), SD: 4 channel/4 channel (2 channel stereo pair)
Input Cable Length	3G-SDI (Level A): Approx. 100 m HD-SDI: Approx. 140 m SD-SDI: Approx. 300 m
Sync Mode	Reference lock Mode / Input Synchronizer Mode / Free-run Mode (Selectable)
Aspect Ratio Mode	4:3, 13:9, 14:9, 16:9, Conversion with Fit to width or Fit to height
I/O Delay	1 frame to 2 frames + 200 μsec
Temperature / Humidity	0°C - 40°C / 30% - 85% (no condensation)
Power	Supply from UFM Frame, +24 VDC
Dimensions	106 (W) x 293.2 (D) mm (Front board), 108.5 (W) x 103.3 (D) x 20 (H) mm (Rear board for remote control)
Weight	Approx. 0.5 kg
Require Slot	UFM 1 slot
Accessory	Operation Manual

SD to 3G/HD Up Convert	Input Format	Output Format (1.5 Gbps)	Output Format (3 Gbps)
	NTSC	1080/59.94i, 720/59.94p	1080/59.94p
	PAL	1080/50i, 720/50p	1080/50p
	525/60	1080/59.94i, 720/59.94p	1080/59.94p
	625/50	1080/50i, 720/50p	1080/50p
	1080/59.94i	--->	1080/59.94p
	1080/50i	--->	1080/50p
	720/59.94p	--->	1080/59.94p
	720/50p	--->	1080/50p

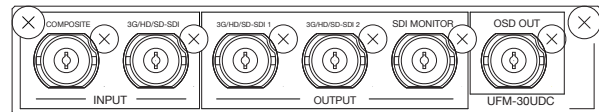
3G/HD to SD Down Convert	Input Format	Output Format
	1080/59.94i	525/60
	1080/50i	625/50
	720/59.94p	525/60
	720/50p	625/50
	1080/59.94p (3G)	1080/59.94i, 720/59.94p, 525/60
	1080/50p (3G)	1080/50i, 720/50p, 625/50

HD to HD Cross Convert	Input Format	Output Format
	1080/59.94i	720/59.94p
	1080/50i	720/50p
	720/59.94p	1080/59.94i
	720/50p	1080/50i

## UFM-30UDC Front Panel



## UFM-30UDC Rear Panel



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