6.3.5	<b>3G SDI Input Card</b>	I (VISTA , OnAir , ROL	JTE 6000)	A949.0452
SDI 3G SDI 3G SDI 4G LOCK HD 3G		The 3G/HD/SD SDI (serial is able to de-embed eight or SDI-HD and 3G (full HD) vi an eight- or 16-channel audi by DIP switches located on t The SDI standard defines up signal. These 16 channels are can determine by hardware s 1&2, or only groups 3&4 wi The card hosts SRCs (sampli When bypassed, the SDI ca Dolby® E audio data. The S from the SDI stream is not in mixing console can run fully <i>If the SRCs are bypassed, the</i>	16 audio channels from SDI- deo streams. For the D21m I to input card. These two mo the card. to 16 audio channels transm e divided into four groups of witches whether all four gro Il be de-embedded. ng rate converters) that are by ard is fully compatible to re RCs can be enabled in case a sync with the local system. Y	SD as well as from /O system it acts as des are determined itted within a video four each. The user ups, or only groups ypassed per default. ecciving embedded the audio extracted This means that the ync used for SDI.
STUDER	SRC Delay	Enabled input and output SRCs each cause a delay (D) that depends on the SRC's input and output sampling rate ( $f_{S_{_{IN}}}$ and $f_{S_{_{_{OUT}}}}$ ). Input and output delays can be calculated using the following formulas. [1] $f_{S_{_{IN}}} > f_{S_{_{OUT}}}$ : $D = \frac{16}{f_{S_{_{IN}}}} + \frac{32}{f_{S_{_{OUT}}}}$ [2] $f_{S_{_{OUT}}} > f_{S_{_{IN}}}$ : $D = \frac{48}{f_{S_{_{IN}}}}$ [8]		
	Examples:	For a 96 kHz input signal and a 48 kHz system clock (i.e., the 'output signal' of the input SRC), input delay is 40 output samples or 0.833 ms (formula [1]). For a 48 kHz system clock (i.e., the 'input signal' of the output SRC) and a 96 kHz output signal, output delay is 96 output samples or 1 ms (formula [2]).		
		Operating modes Selectable SDI groups Connectors Cable length Latency* (de-embedder) < Current consumption (5 V) Operating temperature * Audio latency times are ide	360 μs + D (D = SRC delay )	1&2, 3&4, or all UGH (BNC, 75 Ω) max. 50 m if active; s. above) 0.9 A 0-40 °C
SD/HD/ 3G Thru SD/HD/ 3G In		PLL 48 kHz Master Cik De-Embedder 16 Grp14	Bypass 1	Slave Clk Audio In Grp14 Audio Langer

## **3G SDI Input Card** (VISTA, OnAir, ROUTE 6000) 6.3.5

SDI

4

Grp Select

Bypass

Clk

Status

4

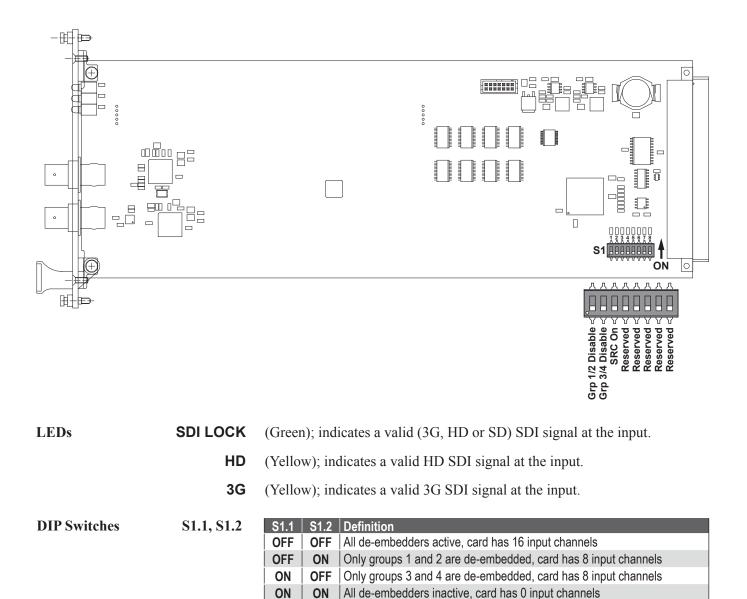
In Clk

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Settings

Status

ID 🖡



S1.3	S1.3	Definition
	OFF	SRCs bypassed (factory default)
	ON	SRCs active

S1.4-S1.8 reserved