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ADA-LVDS-RX-TWIN			build:	Oliver Reiners	05.04.04	
(ESDCI) [®]			checked:	A. Niederholz	16.04.04	\sim
			approved:	Oliver Reiners	16.04.04	\mathbf{N}
SPEC · ADA-I VDS-RX-TWIN	RFV [.]	10				

1. functional description

This LVDS Receiver decodes a LVDS 18 or 24 BIT signal to a 18 BIT TTL-digital output. To connect the TTL-display it uses the ES&S standard connector ESDCI for different 18 BIT TTL display's from several manufacturers. Please refer to ESDCI® adapter's.

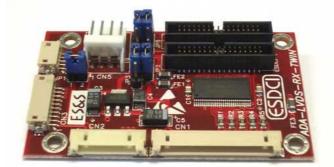
The power source for the receiver and the display may be switched (depending from the available source) by jumpers JP2-JP5 to different standard values. The jumper settings are explained in app B.

To be compatible with both LVDS standards 18 and 24 Bit there are two ESDCI[®] connectors mounted. One is used if the input is 18 Bit LVDS, the other one is used while using 24 Bit LVDS. The binary structure is different (MSB's and LSB's) so please check.

Additional there are several ways of loop-through-wires to ease up connection with inverter and optional hardware like USB or TOUCH-screens. Please refer to app. A.

The BRT-control may also be influenced by an external custom made regulator (JP1/CN4) which may be connected to CN4

2. adapter pictures



 $\mathsf{ESDCI}^{\textcircled{B}}$ cable and adapters like shown are separate order parts !

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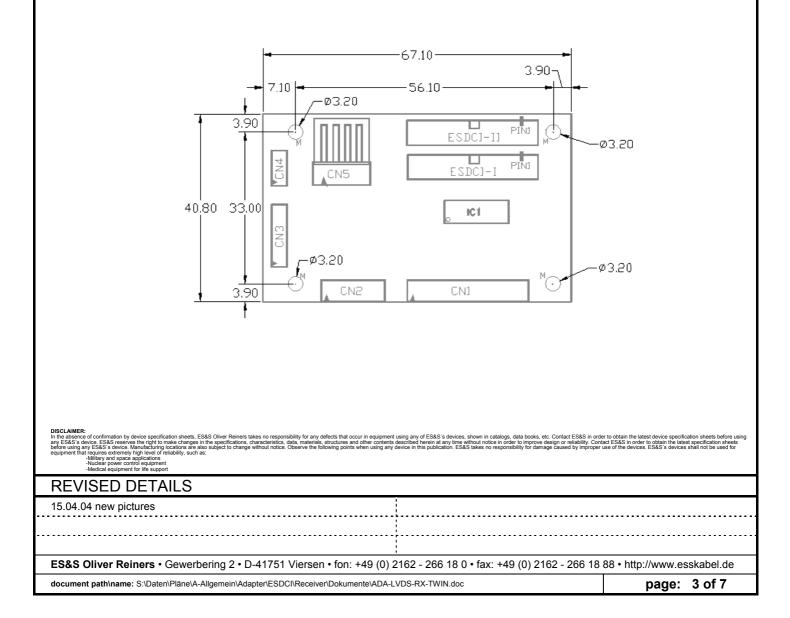
3. material definition

used material:

	mounted	corresponding	UL-Style
ESDCI-I/II	STE-C44-34-B-S-1	STE-A32-34	UL94V0
CN1	DF14-20P-1.25H	DF14-20S-1.25C	UL94V0
CN2	DF14-10P-1.25H	DF14-10S-1.25C	UL94V0
CN3	DF13-10P-1.25H	DF13-10S-1.25C	UL94V0
CN4	DF13-05P-1.25H	DF13-05S-1.25C	UL94V0
CN5	1x4 2.54mm male	various	UL94V0

4. dimension

Module size: 67.10 (H) x 40.80 (V) x 9.0 (D)

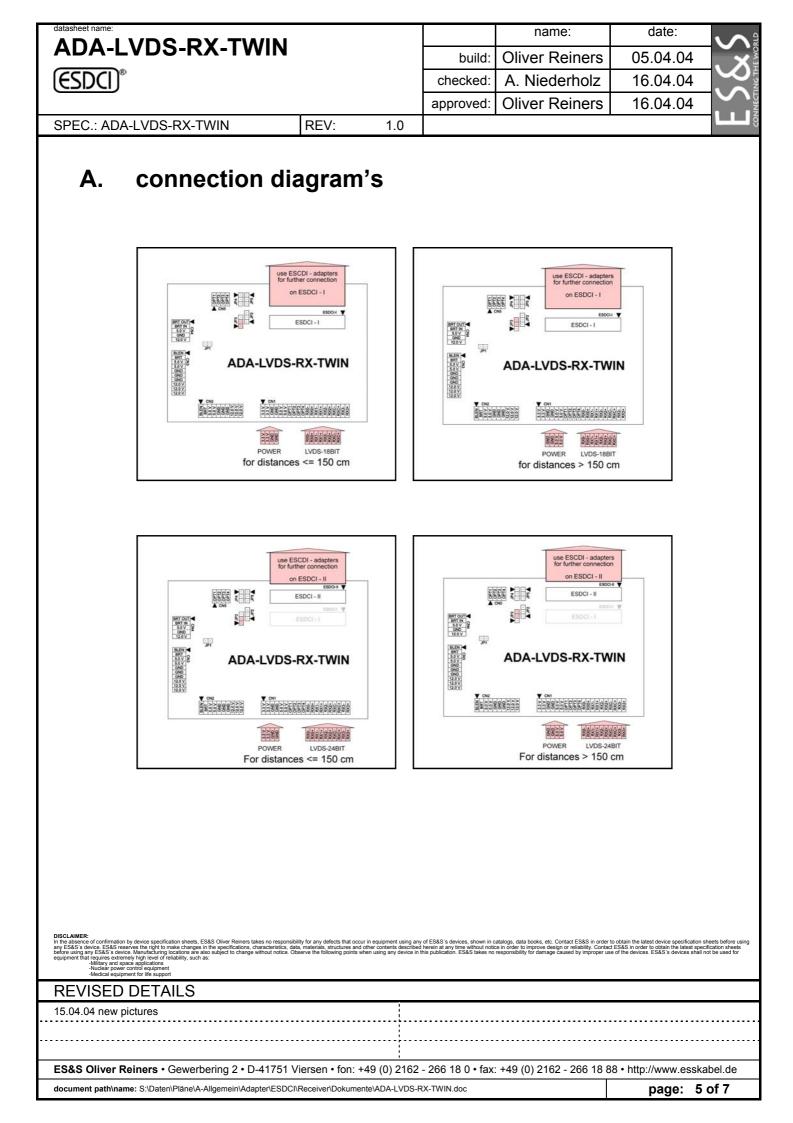


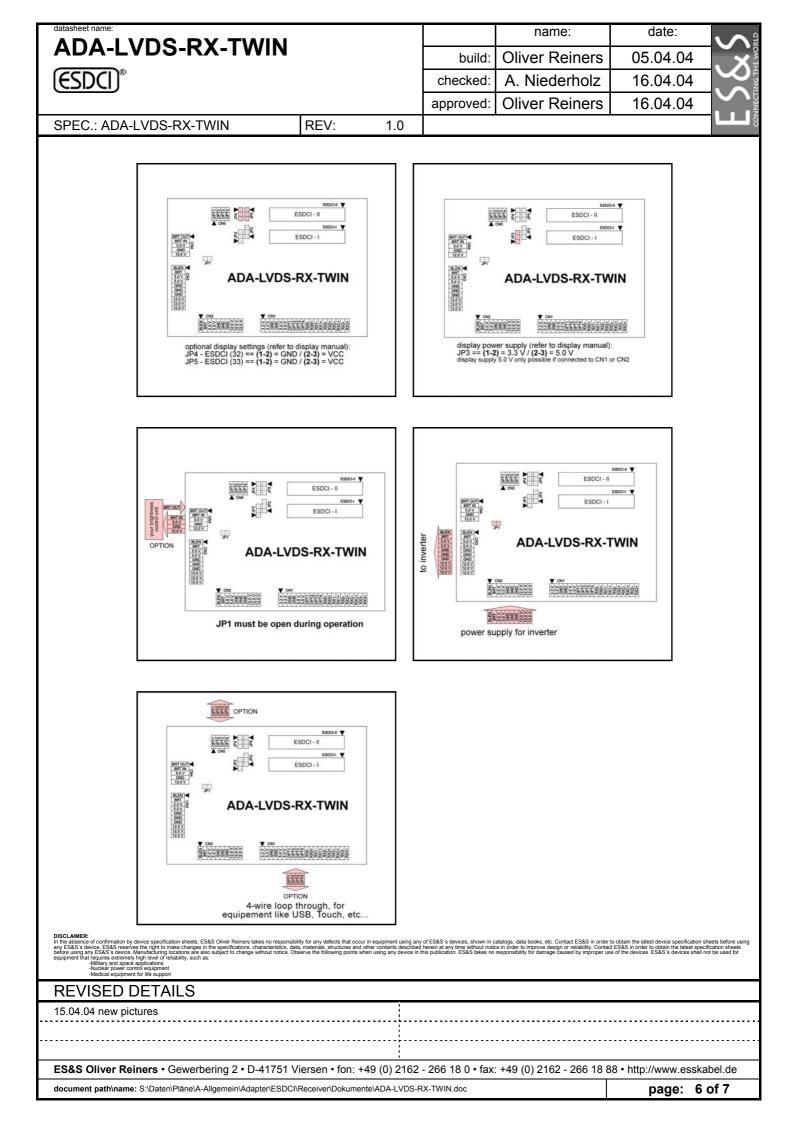
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5. electrical connection

signal GND CLK HSYNC VSYNC GND R0 R1 R1 R2 R3 R4 R4 R5 GND	pin	signal BLEN BRT Vcc 5V Vcc 5V GND GND GND Vcc 12V Vcc 12V Vcc 12V Vcc 12V
CLK HSYNC VSYNC GND R0 R1 R2 R3 R3 R4 R5	2 3 4 5 6 7 8 9 10 CN ² pin	BRT Vcc 5V Vcc 5V GND GND Vcc 12V Vcc 12V Vcc 12V Vcc 12V
CLK HSYNC VSYNC GND R0 R1 R2 R3 R3 R4 R5	3 4 5 6 7 8 9 10 CN ² pin	Vcc 5V Vcc 5V GND GND Vcc 12V Vcc 12V Vcc 12V Vcc 12V
CLK HSYNC VSYNC GND R0 R1 R2 R3 R3 R4 R5	4 5 6 7 8 9 10 CN ² pin	Vcc 5V GND GND Vcc 12V Vcc 12V Vcc 12V Vcc 12V
HSYNC VSYNC GND R0 R1 R2 R3 R3 R4 R5	5 6 7 8 9 10 CN ² pin	GND GND Vcc 12V Vcc 12V Vcc 12V Vcc 12V
VSYNC GND R0 R1 R2 R3 R4 R5	6 7 8 9 10 CN ² pin	GND GND Vcc 12V Vcc 12V Vcc 12V Ccc 12V
GND R0 R1 R2 R3 R4 R5	7 8 9 10 CN ² pin	GND Vcc 12V Vcc 12V Vcc 12V Vcc 12V
R0 R1 R2 R3 R4 R5	8 9 10 CN ² pin	Vcc 12V Vcc 12V Vcc 12V Vcc 12V I: optional BRT
R1 R2 R3 R4 R5	9 10 CN2 pin	Vcc 12V Vcc 12V I: optional BRT
R2 R3 R4 R5	10 CN4 pin	Vcc 12V I: optional BRT
R3 R4 R5	CN4 pin	1: optional BRT
R4 R5	pin	
R5		alama I
	1	signal
GND	1	BRT out
	2	BRT in
G0	3	Vcc 5V
G1	4	GND
G2	5	Vcc 12V
G3	CN	5: loop through
G4	pin	signal
G5	1	OPT1
GND	2	OPT2
B0	3	OPT3
B1	4	OPT4
B2		
B3		
B4		
B5		
GND		
ENAB		
Vcc		
Vcc		
R/L		
U/D		
	G2 G3 G4 G5 GND B0 B1 B2 B3 B3 B4 B5 GND ENAB Vcc Vcc R/L	G2 5 G3 CN8 G4 pin G5 1 GND 2 B0 3 B1 4 B2 1 B3 1 GND 2 B3 1 B5 1 GND 1 ENAB 1 Vcc 1 R/L 1

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B. jumper settings

ADA-LVDS-RX-TWIN					
configuration settings					
JP1	BRT-control				
1-2 closed	external via CN5				
1-2 open	loop through CN3/CN4				
JP2	DISPLAY Vcc				
1-2 closed	Vcc 3.3 V				
2-3 closed	Vcc 5.0 V				
JP3	LVDS Vcc source				
1-2 closed	external 3.3 V via CN1				
2-3 closed	generated 3.3 V on board				
JP4	option pin 31				
1-2 closed	GND				
2-3 closed	Vcc				
JP5	option pin 30				
1-2 closed	GND				
2-3 closed	Vcc				

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