



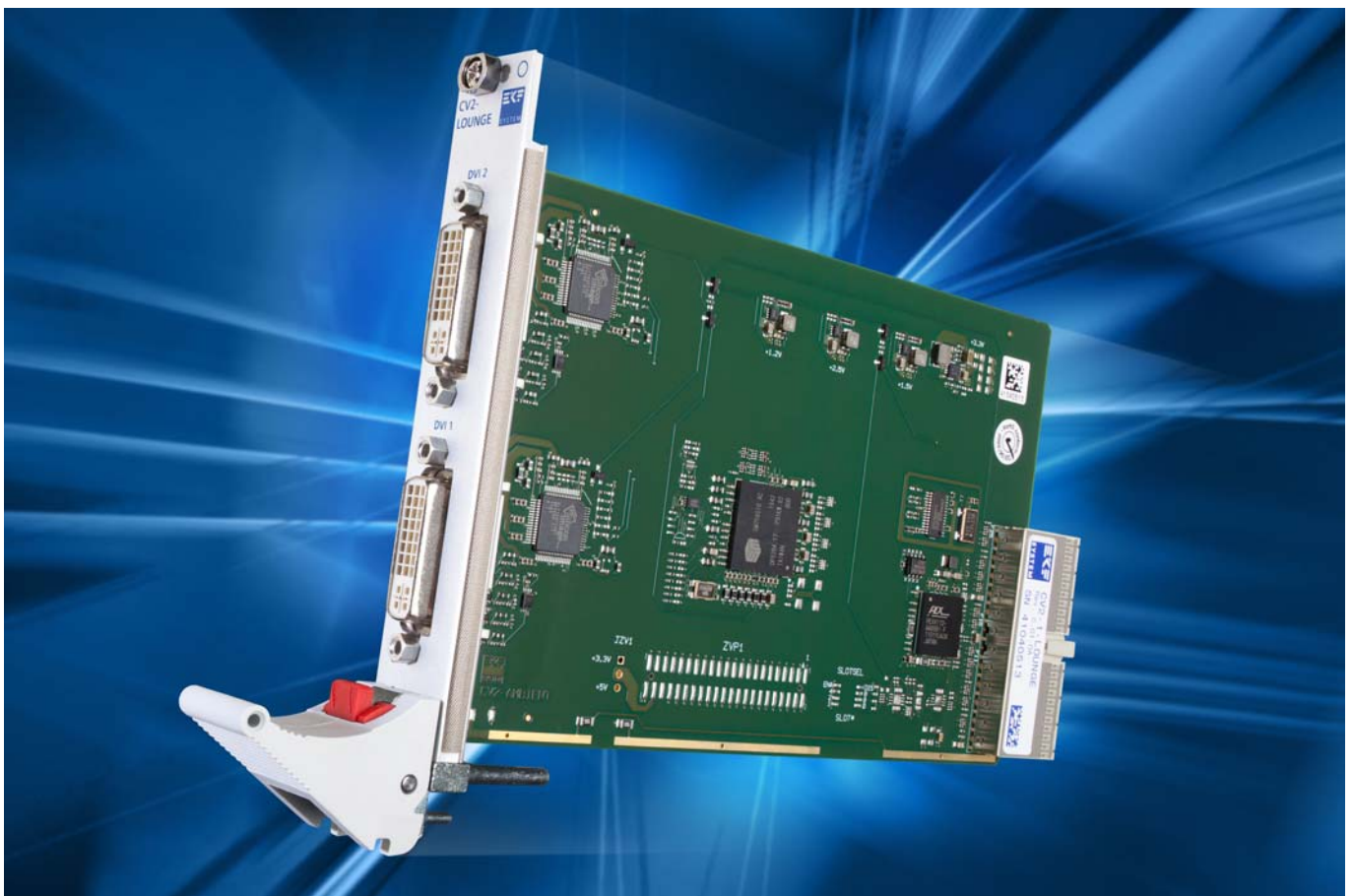
Product Information

CV2-LOUNGE • CompactPCI® Dual Port Graphics Card

Document No. 6360 • 3 November 2011

The CV2-LOUNGE is a 4HP/3U CompactPCI® peripheral board, equipped with a dual display low power graphics processor, suitable for fan-less applications. The CV2-LOUNGE front panel can be provided with two DVI video connectors, or alternatively the classic style VGA connectors. A maximum resolution of 1920 x 1080 (single display) or 1600 x 1200 (dual display) is supported.

The SM750 LynxExp embedded graphics processor includes an integrated 16MB DDR memory, and provides a 2D graphic accelerator and seven layers of display frames. As an option, the Zoom Video Port connector can be used for video capture expansion. Software support is available for Windows® and Linux operating systems.



CV2-LOUNGE • DVI Connectors

Feature Summary

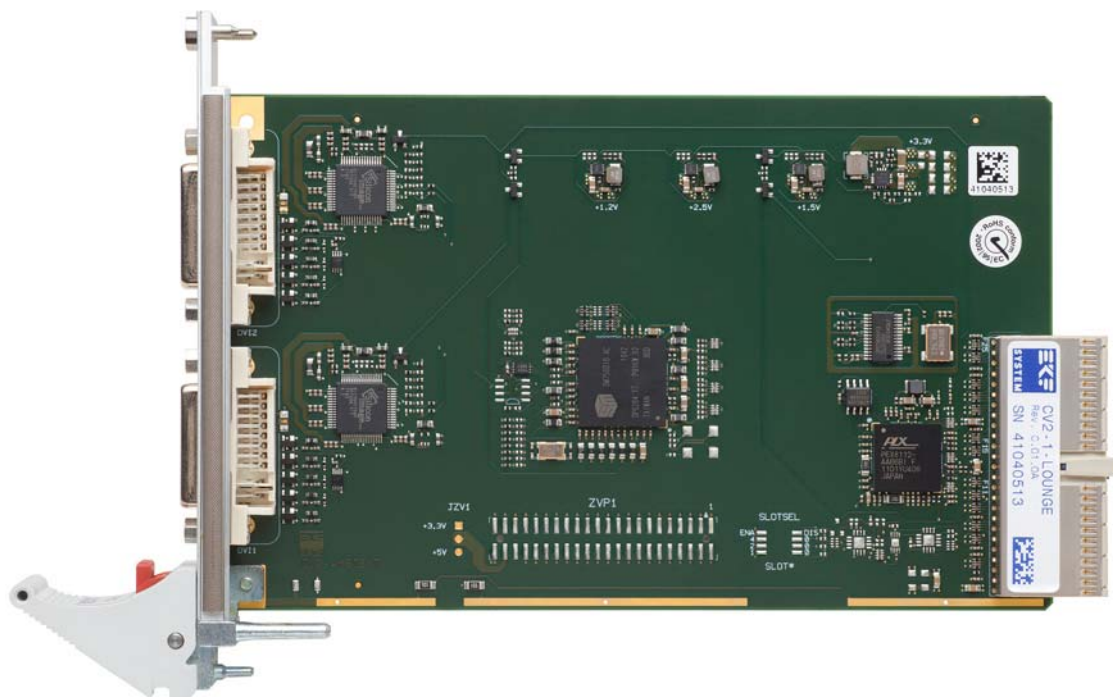
- ▶ CompactPCI® Peripheral Card 32-bit (J1 Connector)
- ▶ +5V Only Design (+3.3V Not Required)
- ▶ Dual DVI Front Panel Video Connectors (VGA as an Ordering Option)
- ▶ SM750 LynxExp Embedded Graphics Processor (Silicon Motion)
- ▶ 16MB Integrated Video DDR Memory
- ▶ Low Power Consumption
- ▶ Multi-Display Support:
 - Dual 300 MHz DAC (VGA), Resolution up to 1920x1080 (Single Display) or 1600x1200 (Dual Display)
 - Dual 18-bit DVO Outputs (DVI via TMDS Transmitter), Resolution up to 1920x1080 (Single Display) or 1600x1200 (Dual Display)
 - Independent Resolution and Refresh Rates for Dual Display Types
- ▶ 2D Graphic Accelerator:
 - 128-bit 2D Graphic Engine
 - 3 ROPs, BitBLT, Transparent BLT, Pattern BLT, Color Expansion, and Line Drawing
 - YUV-16/32-bit RGB Conversion
- ▶ Video Display Layers:
 - Support 7 Layers of Display Frames
 - 2 Hardware Cursors, Primary Graphic, Video, Video Alpha, Alpha, Secondary Graphic
- ▶ Quick-Rotation Features Allow for 90°, 180°, and 270° Rotation of on-Screen Images
- ▶ Zoom Video Port (Option):
 - Two 8-bit Ports or one 16-bit Video Capture Port
 - Supports ITU601 and ITU 656 Specifications UV-16/32-bit RGB Conversion
- ▶ Software Supports Windows® and Linux
- ▶ Long Term Availability
- ▶ Coating, Sealing, Underfilling on Request
- ▶ RoHS compliant
- ▶ Power Requirements +5.0V 1.0A (Typical) 1.5A (Max)
- ▶ MTBF tbd

items are subject to changes

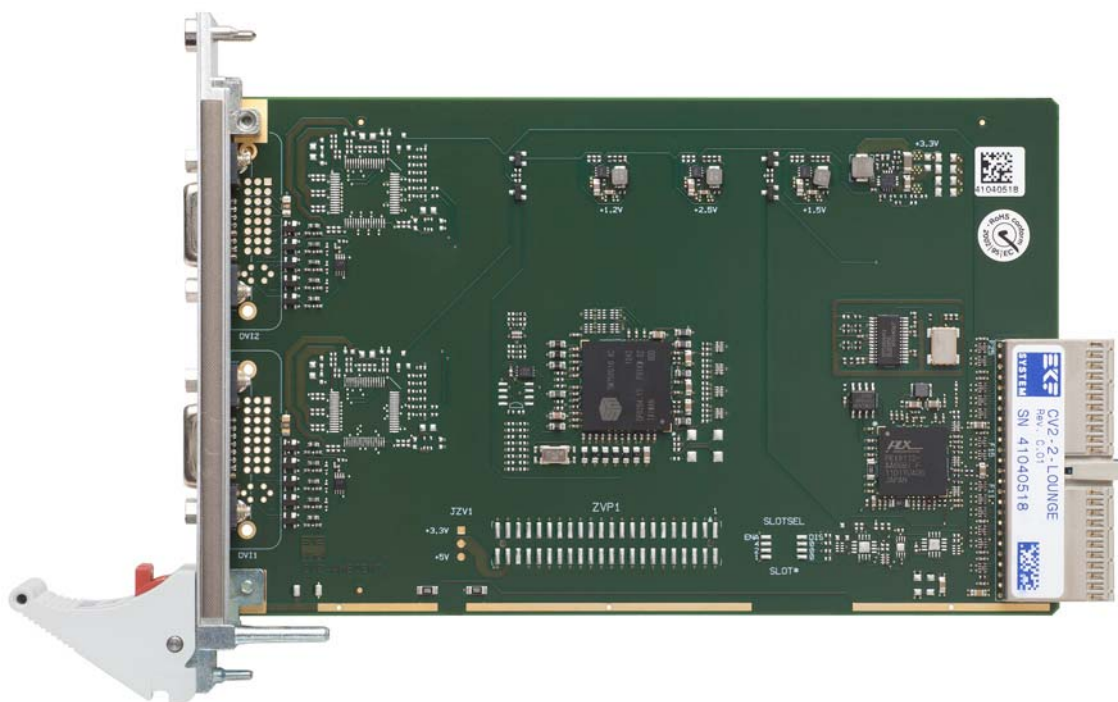


CV2-LOUNGE • DVI Connectors

Board Top View

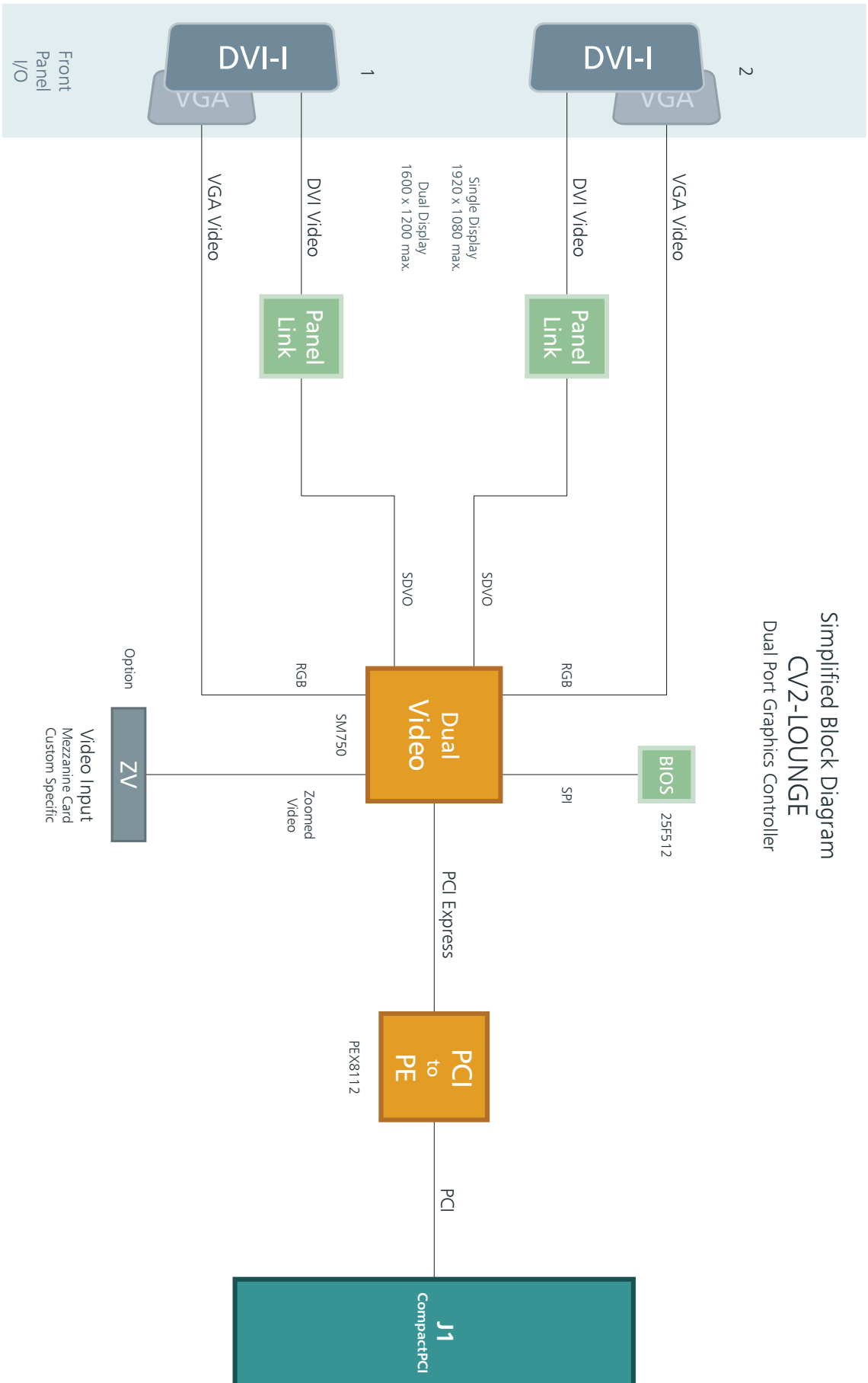


CV2-LOUNGE • DVI Connectors

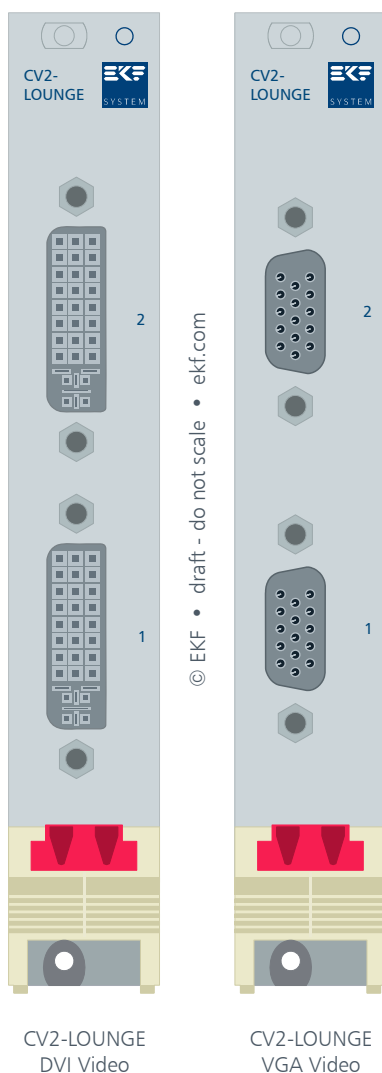


CV2-LOUNGE • VGA Connectors

Block Diagram

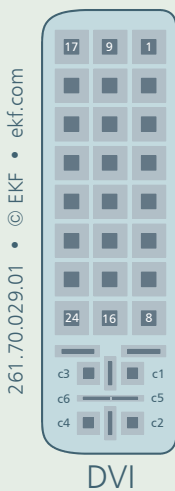


Front Panel Options

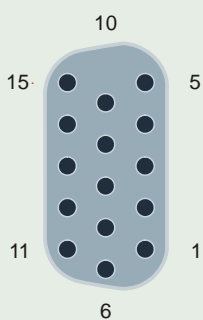


Front Panel Connectors

DVI1 & DVI2					
17	TX0-	9	TX1-	1	TX2-
18	TX0+	10	TX1+	2	TX2+
19	GND	11	GND	3	GND
20		12		4	
21		13		5	
22	GND	14	DDC_POW ¹⁾	6	DVI_DDC_SCL
23	TXC+	15	GND	7	DVI_DDC_SDA
24	TXC-	16	DVI_HP	8	VSYNC
	c3	BLUE	c1	RED	
	c6	GND	c5	GND	
	c4	HSYNC	c2	GREEN	



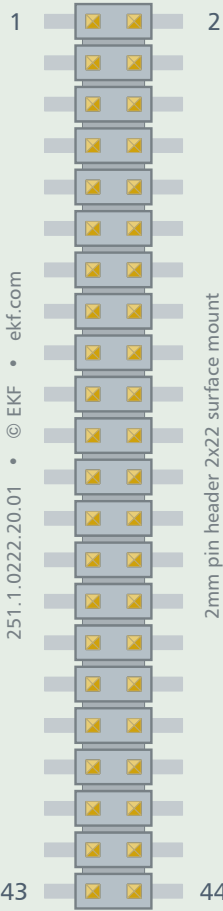
VGA1 & VGA2 (Option)	
1	RED
2	GREEN
3	BLUE
4	NC
5	GND
6	GND
7	GND
8	GND
9	DDC_POW ¹⁾
10	GND
11	NC
12	VGA_DDC_SDA
13	HSYNC
14	VSYNC
15	VGA_DDC_SCL





CV2-LOUNGE • VGA Connectors

Zoom Video Expansion Connector

Zoom Video ZV1 (Option)				
	ZV D0	1	2	GND
	ZV D1	3	4	GND
	ZV D2	5	6	GND
	ZV D3	7	8	GND
	ZV D4	9	10	GND
	ZV D5	11	12	GND
	ZV D6	13	14	GND
	ZV D7	15	16	GND
	ZV D8	17	18	GND
	ZV D9	19	20	GND
	ZV D10	21	22	GND
	ZV D11	23	24	GND
	ZV D12	25	26	GND
	ZV D13	27	28	GND
	ZV D14	29	30	GND
	ZV D15	31	32	GND
ZV VSYNC	33	34	GND	
ZV HSYNC	35	36	GND	
ZV CLK	37	38	GND	
GPIO16/CLKIN	39	40	NC	
GPIO17/I2C_CLK	41	42	+3.3V / +5V	
GPIO18/I2C_DAT	43	44	+12V	



CV2-LOUNGE • VGA Connectors

Configuration Options			
Resolution	2D	Video	Dual Display
1024 x 768	✓	✓	✓
1280 x 1024	✓	✓	✓
1600 x 1200	✓	✓	✓
1920 x 1080	✓		

Ordering Information

For popular CV2-LOUNGE SKUs please refer to www.ekf.com/liste/liste_20.html#CV2

Industrial Computers Made in Germany
boards. systems. solutions.

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