SYSTEM OVERVIEW & INTERFACE SPECIFICATION

Acorn Risc PC Eurocard 3U Slice 1 • 12-Bit R-2R Präzisions-DAC (4 Bit Rot, Grün, Blau) • TI THS7314
Video-Buffer (Pin 4 = +5V, Pin 5 = GND) mit 75R Rückwärtsterminierung • 74HCT86 CSYNC-Logik • HD15
VGA & Cinch CRT Ausgang • Quad USB Host Ports.

CLACK-BUS 40-PIN STACK-THROUGH

DIN 41612 Busanschluss an das Controller-Baseboard.

- ◇VCC_5V
- ◇GND
- ◇BUS_STROBE
- ◇BUS_RW_n
- ◇BUS_D0
- ◇BUS_D1
- ◇BUS_D2
- ◇BUS_D3
- ◇BUS_D4
- ◇BUS_D5
- ◇BUS_D6
- ◇BUS_D7
- ◇BUS_D8
- ◇BUS_D9
- ◇BUS_D10
- ◇BUS_D11

12-BIT VIDEO DAC (RED, GREEN, BLUE R-2R)

Präzisions-Widerstandsleitern (R=1k, 2R=2k 0.1%) für 4096 Farbnuancen.

- ◇DAC_OUT_R
- ◇DAC_OUT_G
- ◇DAC_OUT_B
- ◇DAC_R_BIT0
- ◇DAC_R_BIT1
- ◇DAC_R_BIT2
- ◇DAC_R_BIT3
- ◇DAC_G_BIT0
- ◇DAC_G_BIT1
- ◇DAC_G_BIT2
- ◇DAC_G_BIT3
- ◇DAC_B_BIT0
- ◇DAC_B_BIT1
- ◇DAC_B_BIT2
- ◇DAC_B_BIT3

ACTIVE VIDEO BUFFER & FILTER (TI THS7314)

TI THS7314 SOIC-8 Video-Verstärker mit 75-Ohm-Leitungstreibern (Pin 4=VCC, Pin 5=GND).

- ◇VBUF_IN_R
- ◇VBUF_IN_G
- ◇VBUF_IN_B
- ◇ROUT_R_75R
- ◇ROUT_G_75R
- ◇ROUT_B_75R
- ◇C_VBUF1_VCC
- ◇C_VBUF2_VCC

CONNECTORS (HD15 VGA, RCA CRT) & QUAD USB

Monitorausgänge mit HSYNC/VSYNC/CSYNC sowie 4x USB-A Host-Buchsen.

- ◇VGA_RED
- ◇VGA_GREEN
- ◇VGA_BLUE
- ◇VGA_HSYNC
- ◇VGA_VSYNC
- ◇CRT_COMPOSITE
- ◇USB_PORT1_4_VBUS
- ◇USB_DATA_CHOKES

Standard: Acorn Risc PC Eurocard 3U (220x120 mm) • 40-Pin CLACK-BUS
12-Bit Analog VGA (4096 Farben), RCA Composite CRT, THS7314, 4-Port USB
Workstation- & Labor-Ökosystem für Dipl.-Ing. (FH) Peter Prikaskys 16-Bit Relais-CPU
Entwickler: Ing. Christian Buchhas
Relay Computer Architecture Project

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Title: Slice 1: Video, Audio & Console Workstation

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