SYSTEM OVERVIEW & INTERFACE SPECIFICATION

Unterflur-Docking Master für Acorn Risc PC Slices • 3M Textool ZIF Cartridge-Sockel für Apollo Rope ROM • 10x HDSP-7803 Reingrün 7-Segment-Displays • 4x Core Plane Sockelverbinder • DE10-Lite FPGA Timing-Port • USB-C 5V Stromversorgung.

CLACK-BUS 40-PIN HOST INTERFACE

Zentraler Systembus: 16 Adressbits, 16 Datenbits, Steuer- und Taktleitungen.

- ◇BUS_A0
- ◇BUS_A1
- ◇BUS_A2
- ◇BUS_A3
- ◇BUS_A4
- ◇BUS_A5
- ◇BUS_A6
- ◇BUS_A7
- ◇BUS_D0
- ◇BUS_D1
- ◇BUS_D2
- ◇BUS_D3
- ◇BUS_D4
- ◇BUS_D5
- ◇BUS_D6
- ◇BUS_D7
- ◇BUS_RW_n
- ◇BUS_STROBE
- ◇READY_WAIT
- ◇RESET_n

APOLLO ROPE ROM ZIF-40 CARTRIDGE PORT

3M Textool ZIF-40 Sockelaufnahme für unverlierbare Boot- und Monitor-Software.

- ◇ZIF_A0..A11
- ◇ZIF_D0..D15
- ◇ZIF_CS_n
- ◇ZIF_OE_n
- ◇ZIF_5V
- ◇ZIF_GND

10x 7-SEGMENT DISPLAY BUS (HDSP-7803)

Oktal/Hex Adress- und Datenanzeigen (Preci-Dip DIP-10 Präzisionssockel).

- ◇DISP_SEG_A
- ◇DISP_SEG_B
- ◇DISP_SEG_C
- ◇DISP_SEG_D
- ◇DISP_SEG_E
- ◇DISP_SEG_F
- ◇DISP_SEG_G
- ◇DISP_DP
- ◇DISP_DIGIT_0
- ◇DISP_DIGIT_1
- ◇DISP_DIGIT_2
- ◇DISP_DIGIT_3
- ◇DISP_DIGIT_4

CORE MATRIX INTERFACE & POWER DISTRIBUTION

X/Y Treiber-Routing, Sense-Verstärker-Eingänge und solide +5V/GND-Einspeisung.

- ◇VBUS_5V
- ◇GND_POWER
- ◇GND_ANALOG
- ◇CORE_X_BUS
- ◇CORE_Y_BUS
- ◇SENSE_AMP_IN
- ◇INHIBIT_DRV

Standard: Acorn Risc PC Eurocard 3U (220x120 mm) • 40-Pin CLACK-BUS
3M Textool ZIF-40 Cartridge, 10x 7-Segment, 40-Pin CLACK-BUS
Entwickler: Ing. Christian Buchhas & Dipl.-Ing. (FH) Peter Prikasky
Relay Computer Architecture Project

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Title: Controller Baseboard & Unterflur-Docking Master

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