

VK-RZ/A1H Development Board

for Renesas Electronics RZ/A1H ARM Cortex-A9 LSI

ver. 4.0

R7S721000VCBG#YJ0

- 400MHz, 256 BGA, Fanless

10 MByte OnChip RAM

- Can RUN without ext. SDRAM

Up to 128 MByte NOR-Flash

- QSPI, 66MHz, Quad (Burst), 8-bit
- Direct fetch is possible

Up to 128 MByte SDRAM

- 66MHz, 16-bit

2 x USB Host/Function

- USB 2.0

Micro SD

- Boot capability

USB Mini-B to UART

- LPC11U35FHI33/501

Ethernet 10/100Base TX

- PHY: LAN8710A-EZK

CAN

- PHY: TJA1040T/VM.118

Atmel CryptoAuthentication:

- ATSHA204A-SSHDA-T

Video In:

- WXGA
- PAL
- NTSC

Video outputs:

- LVDS
- RGB

Exp. Ports:

- RZ/A1 - 97 I/O 3.3V

Debug ports:

- RZ/A1 J-TAG 2x10 pins
- CMSIS DAP SWD interface

DC IN +5V

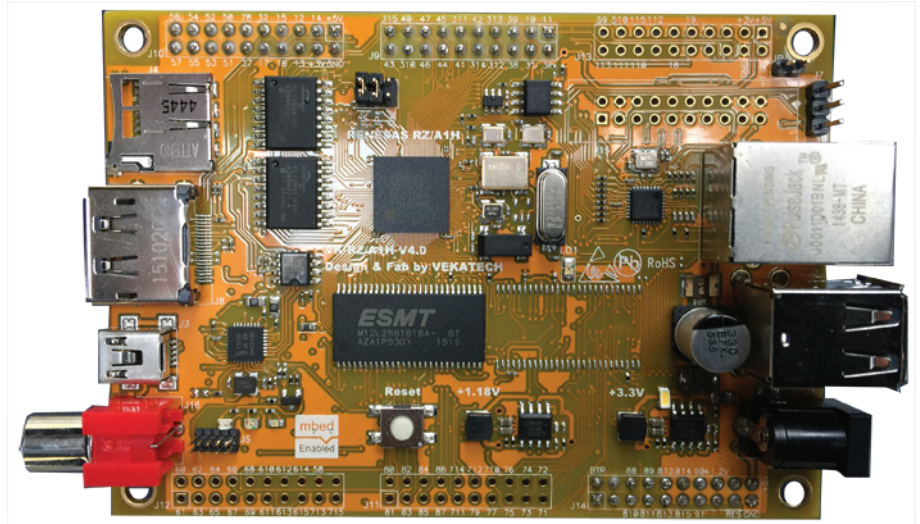
- Consumption +3.3V @ 450mA max

Operating temperature:

- -40 ... +85°

Dimensions:

- ID-2 105 x 74 mm



Board Support Package for:

- u-boot, Linux - GCC
- FreeRTOS - IAR
- CycloneTCP - IAR
- Express Logic Embedded GUI demo - IAR
- IS2S MicroEJ demos - IAR
- .NET Micro Framework - GCC
- MBED enabled

Utilities:

- SD CARD RAM/Flash Loader

Companion boards:

- VK-LCD50RTA - 5" Parallel(65536 colors) TFT LCD display, 480x272, resistive touch(STMPE811), 8kbits i2C memory and Audio DAC(MAX9850)
- VK-LCD70RT - 7" LVDS (65536 colors) TFT LCD display, 1024x600, resistive touch(STMPE811), 8kbits i2C memory

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