

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China











Micromodule with Xilinx Kintex UltraScale KU040, 1C,2 GByte DDR4, 4 x 5 cm

Order number: TE0841-02-040-1C

The Trenz Electronic TE0841-02-040-1C is a FPGA module integrating a Xilinx Kintex UltraScale KU40, 2 GByte DDR4 SDRAM, 64 MByte QSPI Flash for configuration and operation, and powerful switch-mode power supplies for all on-board voltages. A large number of configurable I/O's is provided via rugged high-speed stacking strips.

All this on a tiny footprint, smaller than a credit card, at the most competitive price. Modules in 4 x 5 cm form factor are fully mechanically and largely electrically compatible among each other.

All parts are at least commercial temperature range of 0°C to +70°C. The module operating temperature range depends on customer design and cooling solution. Please contact us for options.

This product is not always in stock, but will be produced on customer order (on demand).

Please ask for any minimum quantities.

Key Features

- Xilinx Kintex UltraScale KU40 FPGA XCKU040-1SFVA784C
- Rugged for industrial application
- Size: 40 x 50 mm
- 3 mm mounting holes for skyline heat spreader
- 2 GByte DDR4 SDRAM
- 64 MByte QSPI Boot Flash
- B2B Connectors: 3 x Razor Beam, total 260 terminals
 - User I/O: HR 56, HP 84
 - Serial transceiver: GTH 8 lanes (all)
 - o GT clock inputs: 2
- Clocking
 - o Si5338 4 output PLL, GT and PL clocks
 - o 200 MHz LVDS oscillator
- Power
 - o All power supplies on board, single supply operation supported.
 - User defined IO-Bank power
- Evenly spread supply pins for good signal integrity.

Other assembly options for cost or performance optimization plus high volume prices available on request.

Recommended Software

Vivado Design Suite - HLx Edition Download

Vivado Design Suite HLx Editions include Partial Reconfiguration at no additional cost with the Vivado HL Design Edition and HL System Edition. In-warranty users can regenerate their licenses to gain access to this feature.

Overview of all Editions of Vivado Design Suite Editions

Development Support

There are different base boards available for this module.

Latest documentation, design support files and reference designs with source files are available for download free of charge.

Package Content

- 1 x TE0841-02-040-1C Micromodule 4 x 5 cm with Kintex UltraScale XCKU040 (commercial temperature range)
- 4 x bolts and screws



