



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!



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Micromodule with Xilinx Kintex UltraScale XCKU040-1SFVA784I, 2 GByte DDR4

Order number: TE0841-02-040-11

Product information "Micromodule with Xilinx Kintex UltraScale XCKU040-1SFVA784I, 2 GByte DDR4"

The Trenz Electronic TE0841-02-040-11 is an industrial-grade FPGA module integrating a Xilinx Kintex UltraScale KU40, 2 banks of 512 MByte (16 bit width) DDR4, 32 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 industrial temperature range of -40°C to +85°C. The module operating temperature range depends on customer design and cooling solution. Please contact us for options.

Key Features

- Xilinx Kintex UltraScale KU40 FPGA XCKU040-1SFVA784I
- Rugged for industrial application
- Size: 40 x 50 mm
- 3 mm mounting holes for skyline heat spreader
- 2 GByte 16 bit wide DDR4
- 64 MByte SPI Boot Flash
- B2B Connectors: 3 x Razor Beam, total 260 terminals
 - User I/O: HR 56, HP 84
 - Serial transceiver: GTH 8 lanes (all)
 - GT clock inputs: 2

- Clocking
 - Si5338 - 4 output PLL, GT and PL clocks
 - 200 MHz LVDS oscillator
- Power
 - 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 HL Design Edition

Overview Xilinx Vivado Versions

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 TE0841-02-040-1I Micromodule 4 x 5 cm with Kintex UltraScale XCKU040 (industrial temperature range)