



Micromodule with Xilinx Kintex UltraScale KU035, 2 GByte DDR4, Speedgrade 2

Order number: TE0841-02-035-2I

Product information "Micromodule with Xilinx Kintex UltraScale KU035, 2 GByte DDR4, Speedgrade 2"

The Trenz Electronic TE0841-02-035-2I is a powerful FPGA module integrating a Xilinx Kintex UltraScale KU035, 2 GByte DDR4, 64 MByte (512 MBit) SPI Boot 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 KU035 FPGA XCKU035-2SFVA784I
- Rugged for industrial application
- Size: 40 x 50 mm
- 3 mm mounting holes for skyline heat spreader
- 2 GByte (2 x 1 GByte) 16-Bit width DDR4 SDRAM
- 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 TE0841-02-035-21 Micromodule 4 x 5 cm mit Kintex UltraScale XCKU035 (industrial temperature range)

All modules produced by Trenz Electronic are developed and manufactured in Germany.