

SoC Module with Xilinx Zynq XC7Z030-1SBG485I, 1 GByte DDR3L, 4 x 5 cm



Order number: TE0715-04-30-1I

In Stock: 0

Quantity	Unit price
To 9	
From 10	
From 25	
From 50	
From 100	
From 250	
From 500	
From 1000	

Description

Downloads

Resources

Product information "SoC Module with Xilinx Zynq XC7Z030-1SBG485I, 1 GByte DDR3L, 4 x 5 cm"

The Trenz Electronic TE0715-04-30-1I is an industrial-grade Xilinx Zynq-7030 System on Module with 4 MGT Links, a Gigabit Ethernet transceiver, 1 GByte DDR3L SDRAM, 32 MByte SPI Flash memory for configuration and operation, and powerful switch-mode power supplies for all on-board voltages. A large number of configurable I/Os 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 Zynq 7030 XC7Z030-1SBG485I
- Rugged for shock and high vibration
- ARM dual-core Cortex-A9 MPCore
- 10/100/1000 tri-speed gigabit Ethernet transceiver (PHY) with SGMII
- MAC Address EEPROM
- USB 2.0 high-speed ULPPI transceiver
- 32-bit-wide 1 GByte DDR3L SDRAM
- 32 MByte QSPI Flash memory (with XIP support)
- Programmable Clock Generator: Transceiver Clock (default 125 MHz)
- Plug-on module with 2 x 100-pin and 1 x 60-pin Razor Beam High-Speed hermaphroditic Terminal/Socket Strips (regular 4 mm)
- 132 FPGA I/O's (65 LVDS pairs possible) and 14 PS-MIO available on board-to-board connectors
- 4 GTP/GTX Tranceivers
- On-board high-efficiency DC-DC converters: 4.0 A x 1.0 V power rail; 1.5 A x 1.5 V power rail; 1.5 A x 1.8 V power rail
- Temperature compensated RTC (real-time clock)
- System management
- eFUSE bit-stream encryption
- AES bit-stream encryption
- User LED
- 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 WebPACK Edition (free version)

The Vivado Design Suite HL WebPACK Edition is the FREE version of the design suite. Vivado HL WebPACK delivers instant access to some basic Vivado features and functionality at no cost.

Overview of all editions of Vivado Design Suite

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.

Scope of Delivery

- 1 x TE0715-04-30-1I Trenz Electronic 4 x 5 cm Micromodule
- 8 x screws
- 4 x bolts

Additional Information

- Manufacturer's article number: TE0715-04-30-1I
- Trenz Electronic TE0715 Wiki
- Samtec LSHM Razor Beam, High-Speed Hermaphroditic Terminal/Socket Strips, regular 4 mm, overview, compatibility, mating heights and speed rating: Wiki, mounted on every 4 x 5 cm module of Trenz Electronic
- Support Forum

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

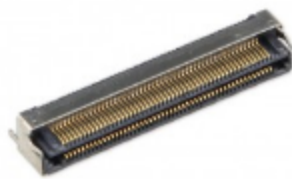
Related links to "SoC Module with Xilinx Zynq XC7Z030-1SBG485I, 1 GByte DDR3L, 4 x 5 cm"

- > Do you have any questions concerning this product?
- > Wiki
- > Further products by Trenz Electronic GmbH

Accessories

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Similar products



Samtec Razor Beam REF-189016-02, LF-04.0, 100 pins, for all 4x5 SoMs



Samtec Razor Beam REF-189017-02, LF-04.0, 60 Pins, for all 4x5 SoMs



Heatsink for TE0715, spring-loaded embedded



Carrier Board for Trenz Electronic 7 Series



TE0705 - Simplified carrier board based upon TE0701



Contact Support

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