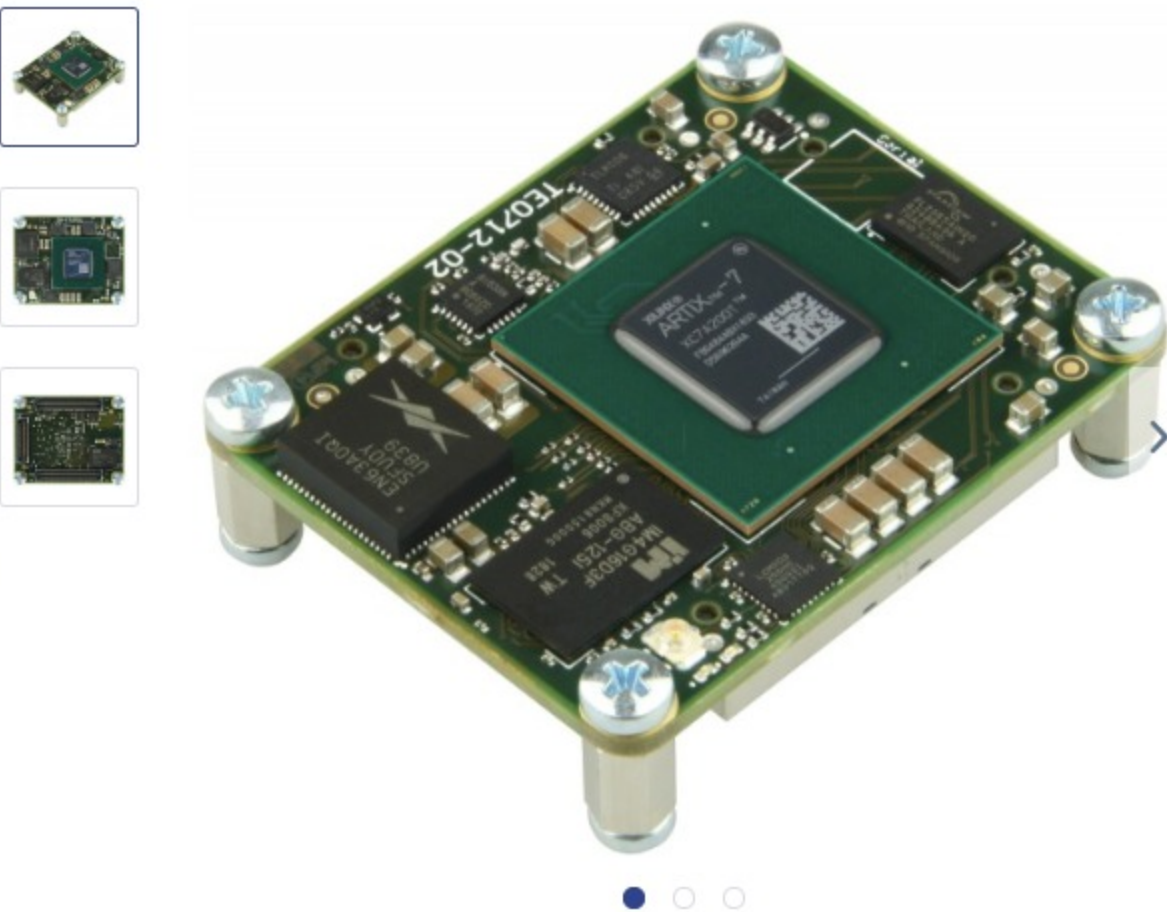


FPGA Module with Xilinx Artix-7 XC7A200T-2FBG484I, 1 GByte DDR3, 4 x 5 cm



€309.00 (358.44 € gross) *

Prices plus VAT plus shipping costs

Ready to ship today,
Delivery time appr. 1-3 workdays

1



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Remember

Order number: TE0712-02-200-2I
In Stock: 40

Quantity	Unit price
To 9	€309.00 (358.44 € gross) *
From 10	€278.10 (322.60 € gross) *
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From 250	€231.75 (268.83 € gross) *
From 500	€207.03 (240.15 € gross) *
From 1000	€207.03 (240.15 € gross) *

Description

Downloads

Resources

Product information "FPGA Module with Xilinx Artix-7 XC7A200T-2FBG484I, 1 GByte DDR3, 4 x 5 cm"

This article is the replacement for the TE0712-01-200-2I. All changes are included in the [Product Change Notification \(PCN\)](#).

The Trenz Electronic TE0712-02-200-2I is an industrial-grade FPGA module integrating a Xilinx Artix-7 200T FPGA, a 10/100 Mbit Ethernet transceiver, 1 GByte of DDR3 SDRAM, 32 MByte Flash memory 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 Artix-7 XC7A200T-2FBG484I
- Rugged for high shock resistance and high vibration
- 32 MByte (256 MBit) Quad-SPI Flash memory
- 4 GTP (high-performance transceiver) lanes
 - GTP (high-performance transceiver) clock input
- 1 GByte 32-Bit DDR3 SDRAM
- 10/100 MBit Ethernet PHY in RMII Mode
 - MAC address EEPROM
- Programmable Low Jitter PLL (Silicon Labs SI5338)
- On-board high-efficiency DC-DC converters
 - 12 A x 1.0 V power rail
 - 1.5 A x 1.8 V power rail
 - 1.5 A x 1.5 V power rail
- Supply voltages: either 3.3 V or 3.3 V and 5 V
- Plug-on module with 2 x 100-pin and 1 x 60-pin Razor Beam High-Speed hermaphroditic Terminal/Socket Strips (regular 4 mm)
- 158 FPGA I/O's (78 differential pairs) available on board-to-board connectors
- System management and power sequencing
- eFUSE bit-stream encryption
- AES bit-stream encryption
- Two User configurable LEDs
- 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 TE0712-02-200-2I Trenz Electronic 4 x 5 cm FPGA module with Xilinx Artix-7 200T
- 8 x screws
- 4 x bolts

Additional Information

- Manufacturer's article number: TE0712-02-200-2I
- [Trenz Electronic TE0712 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 "FPGA Module with Xilinx Artix-7 XC7A200T-2FBG484I, 1 GByte DDR3, 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

2.61 € (3.03 € gross) *
In Stock: 168



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

2.21 € (2.56 € gross) *
In Stock: 13



Heat Sink for TE0712, spring-loaded embedded

From 11.40 € (13.22 € gross) *
In Stock: 3



Carrier Board for Trenz Electronic 7 Series

From 131.40 € (152.42 € gross) *
In Stock: 0



TE0705 - Simplified carrier board based upon TE0701

From 95.40 € (110.66 € gross) *
In Stock: 13

Contact Support

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Technical support:
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* All prices are quoted net of the statutory value-added tax and shipping costs and possibly delivery charges, if not otherwise described

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