



**Development, manufacturing
and supply of FPGA and SoC solutions
since 1992**



intel®



MICROCHIP



LATTICE
SEMICONDUCTOR

- Developing
- Manufacturing
- Integrating
- Sales worldwide

All modules are developed and manufactured in Germany

Trenz Electronic GmbH



- Established 1992
- 80+ employees
- EUR 14.5 million sales in 2022
- Approx. EUR 20 million sales in 2023
- SMD in-house production
- Automated testing
- ISO9001 and ISO14001 certified
- Embedded World Nuremberg yearly

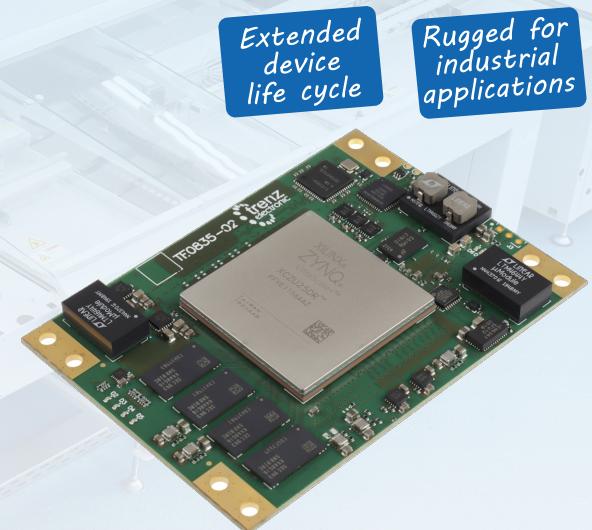
Trenz Electronic Service

- Integration of FPGA and SoC modules
- Electronic Design Service
- Electronic Manufacturing Service
- Rapid Prototyping



Trenz Electronic Modules

- Rugged for industrial applications
- Automotive grade available
- Extended device life cycle
- Small and powerfull
- Rapid prototyping
- Cooling solutions
- Customizable



Trenz Electronic Support

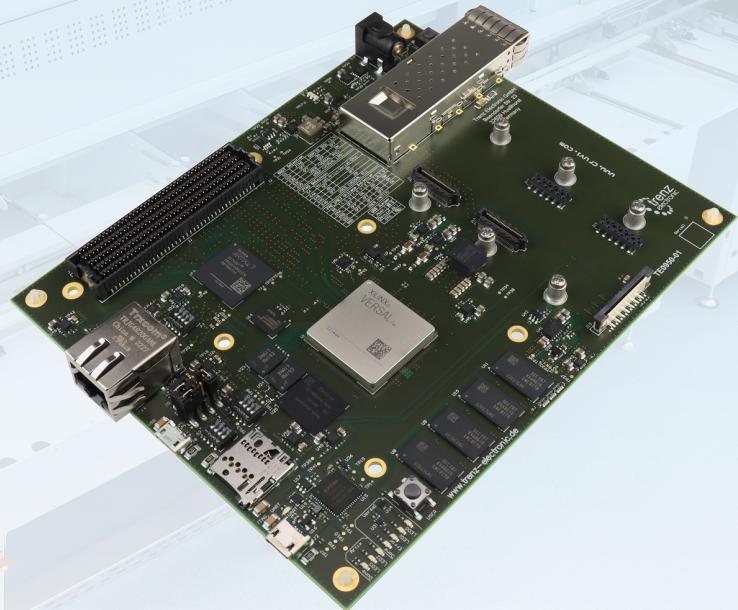
- Free Customer Support
- Free Download of Documentation
- Wiki and Support Forum
- Online Shop - bilingual



TE0950 Series

AMD Versal™ AI Edge Evaluationboard

- AMD Versal™ AI Edge XCVE2302-1LSESFVA784 device
- 4 GByte DDR4 SDRAM
- LP FMC with 4 GTYP Transceiver
- zQSFP with 4 GTYP Transceiver
- 2 x CRUVI HS, 2 x CRUVI LS
- Dimensions: 15 x 12 cm



TE0865 Series

High performance MPSoC module – AMD Zynq™ UltraScale+™

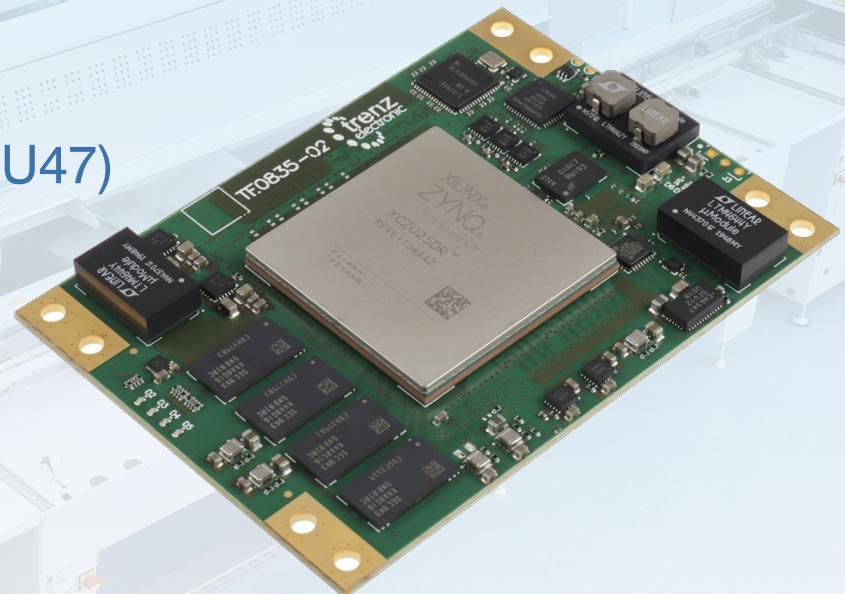
- AMD Zynq™ UltraScale+™ (ZU11-ZU19)
- 2 GByte DDR4 on PS and PL each
- 96 HD I/Os, 240 HP I/Os, 21 MIOs
- 32 x GTH, 16 x GTY, 4 x GTR
- USB2.0 PHY and ETH. PHY
- Dimensions: 7.5 x 10 cm



TE0835 RFSoC Series

RFSoC module with AMD Zynq™ UltraScale+™

- AMD Zynq™ UltraScale+™ RFSoC ZU25/ZU47
- 4 GByte DDR4 SDRAM on PS
- 8 x RFADC + 8 x RFDAC (ZU25/ZU47)
- 4 x GTR, 8 x GTY
- USB2.0 PHY and ETH. PHY
- Dimensions: 9 x 6.5 cm



4 x 5 cm MPSoC & SoC Modules

Compatible among each other



Extended
device
life cycle

Rugged for
industrial
applications

Available: AMD Zynq™ UltraScale+™, Kintex™ UltraScale™,
Zynq™ 7000, Artix™ 7, Kintex™ 7, Spartan™ 6

TE080x and TE081x Series

MPSoC module with AMD Zynq™ UltraScale+™

- ZU2-ZU15, 784 pin packages
- Up to 8 GByte DDR4
- 128 MByte QSPI Flash
- 4 x 160 pin or 4 x 240 pin B2B connectors
- Dimensions: 9 x 6.5 cm



AM Series

AM0010 industrial-grade MPSoC with AMD Zynq™ UltraScale+™

- AMD Zynq™ UltraScale+™ XCZU2CG-1SFVC784E
- 4 GByte DDR4 SDRAM with ECC
- Up to 204 PL I/Os, up to 22 PS I/Os
- 4 x GTR, 4 x GTY
- USB2.0 PHY and ETH. PHY
- Dimensions: 4 x 5.6 cm



TE0812 Series

Powerful modules designed for cubesat missions

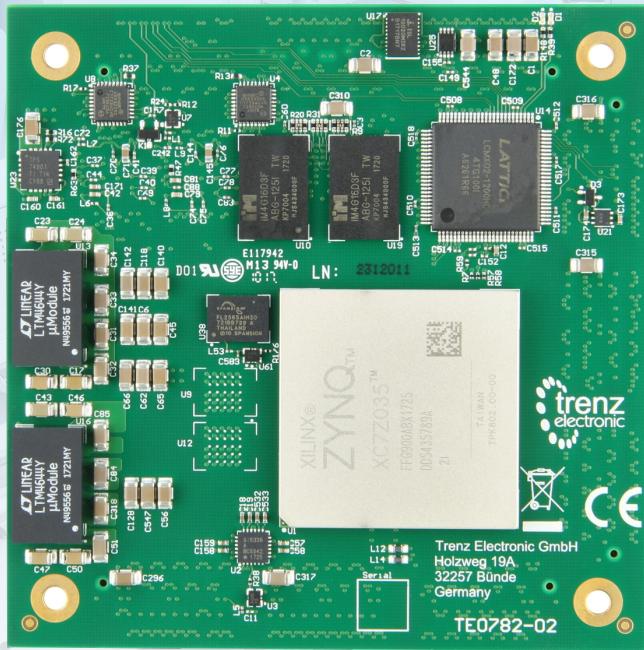
- AMD Zynq™ UltraScale+™ ZU6
- 1 GByte DDR4 SDRAM
- 2 x 128 MByte Flash
- 127 total I/O
- 16 Gbit (12 x PL, 4 x PS) transceiver
- e.MMC, MRAM, Vorago VA41630,
ETH, UART, 2 x analog input, 2 x CAN
- Dimensions: 9 x 9 cm



First Flight mission was on
June 12th 2023 with SpaceX

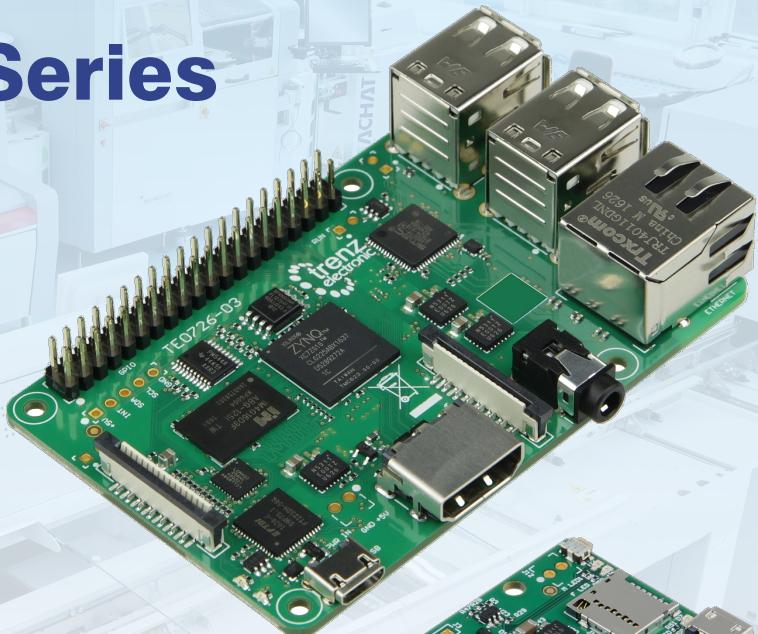
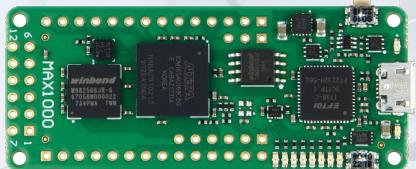
Automotive / High Temperature / Special

- Zynq™ SoC, mid to high-end devices
- Automotive
- Anti Sulfur
- Coating



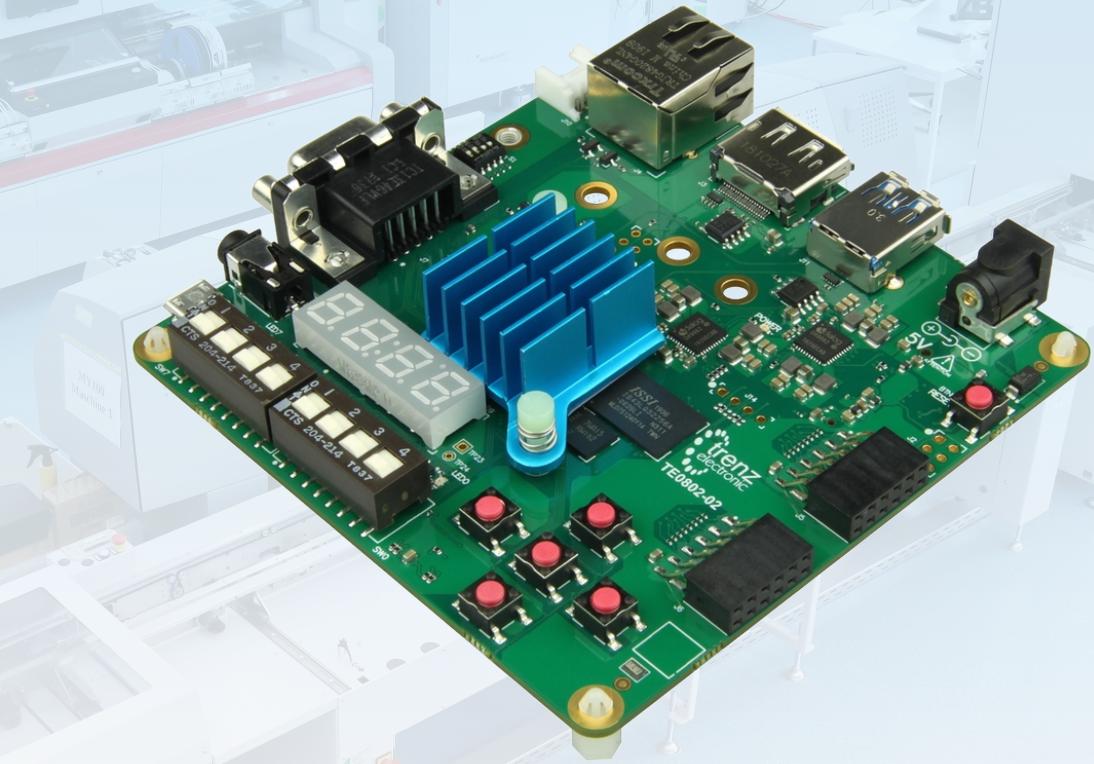
Low Cost Series

- Hobby/Maker
- Educational
- Easy to use connector/header
- Compatible: Arduino, Raspberry Pi (HAT)



MPSoC Development Board TE0802

- AMD Zynq™ UltraScale+™
- 1 GByte LPDDR4 memory
- Storage
 - 32 MByte SPI Flash
 - MicroSD card
 - M2 PCIe SSD support
- Display: DisplayPort, VGA, 4-digit 7-segment LED, 8 LEDs
- Audio: 3.5 mm jack
- User I/O: 2 x Pmod connectors
- Communication and Debug
 - USB 3.0 Host (type A)
 - USB JTAG/UART microUSB
 - Gigabit Ethernet RJ45
- Input: 5 push buttons, 8 bit slide switches, reset button



CompactPCI Serial Card

- AMD Zynq™ UltraScale+™ MPSoC ZU15
- 3U Form Factor
- 64-bit DDR DDR4 SODIMM max. 32 GByte
- 128 MByte QSPI Boot Flash dual parallel
- Front side interface connectors
- 4 CompactPCI Serial connectors
for backplane connection



Starter Kits

Available with AMD Zynq™ UltraScale+™ MPSoC and Zynq™ SoC

- MPSoC module with AMD Zynq™ UltraScale+™
- Pre-assembled heatsink
- TEBF0808 baseboard
- Core V1 Mini-ITX enclosure
- Including accessories like power supply, XMOD FTDI JTAG adapter, microSD card, USB cable, screws, bolts



Special Project

- The 21st century realization of the Commodore™ 65 heritage: a complete 8-bit computer running more than 40x faster than a C64 while being increasingly compatible. Mechanical keyboard, digital video output, dual SDHC™ card support, Ethernet, extended memory and other features increase the fun without spoiling the 8-bit feel. Hardware designs and software are open-source.



Full SMD In-house production

- Full SMT production since 2014
- Smallest SMD part 01005
- Two Mycronic MY700 direct solder printing
- Inline PCB feeder Mycronic MY300 and MY100, pick and place
- Mycronic automatic SMD storage system
- Mycronic VI Technology 5K 3D (AOI)
- Two PI Series 3D SPI



Full SMD In-house production



Free Customer Support

→ Phone

→ E-Mail

→ Forum



Welcome, **Guest**. Please login or register.
Did you miss your activation email?

News:

**Attention: For security reasons,please choose a user name "different" from your login name.
Also make sure to choose a secure password and change it regularly.**

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Trenz Electronic GmbH Support Forum

Trenz Electronic Products

Trenz Electronic FPGA Modules General discussion of all Trenz FPGA Modules	6151 Posts 1160 Topics	Last post by M Kirberg in Re: TE3803_QSPI#256x128... on August 17, 2023, 03:28:35 PM
UltraScale Topics related to UltraScale and UltraScale+ and UltraScale+ MPSoC	1100 Posts 202 Topics	Last post by pete... in Re: TES8000ME boot S96... on Today at 10:14:34 AM
Evaluation Boards Child Boards: EDDP-EDPS Support	0 Posts 0 Topics	Last post by Jason bourne... in Re: How to initialize th... on February 01, 2023, 02:20:12 AM

Open Source

Open source hardware	190 Posts 41 Topics	Last post by Gurtelino in Re: Open Source IP Core ... on September 29, 2022, 03:51:16 PM
Open source IP	6 Posts 1 Topics	Last post by Antti Lukats in Re: DisplayPort Aux moni... on June 25, 2021, 11:21:59 AM

Community

Arrow USB Programmer2	67 Posts 12 Topics	Last post by Thomas D in Re: Problems programming... on February 15, 2023, 10:15:53 AM
MAX1000 community projects You are welcome to present your MAX1000 projects in this board.	104 Posts 22 Topics	Last post by Thomas D in Re: SD Ram Controller fo... on June 27, 2023, 05:02:55 PM

Free Download Area



Documentation, technical reference manuals, schematics, reference designs with source files, hardware designs, drivers, assembly diagrams, 3D files and lots more

The screenshot shows a website interface for Trenz Electronic's download section. The top navigation bar includes links for Wiki, Forum, language (DE), currency (€ EUR), and Service/Help. The main menu has categories: Home, Products, Download, Company, Services, Jobs, News, and Distributors. Below this, a breadcrumb trail shows the path: Download > Trenz_Electronic > Modules_and_Module_Carriers > 4x5 > TE0710 > REV02 > Documents.

The left sidebar lists various product categories under the heading "Trenz_Electronic".

The right side displays a "Disclaimer" section with a link to "Legal Notices" and a note about sending requests to support@trenz-electronic.de. Below this is a "Section Documents and Files" heading. A "Files" section lists two items under "Technical Reference Manual (2 Files)":

- TRM-TE0710-02.pdf (Size: 5.37 MB / Modified: 07.06.2017 - 20:03:34)
- TRM-TE0710_02-v0-01_13_2021.pdf (Size: 5.35 MB / Modified: 13.01.2021 - 15:47:17)

Below this is a "Schematics (8 Files)" section:

- SCH-TE0710-02-100-1Q.PDF (Size: 3.61 MB / Modified: 09.03.2022 - 12:33:06)
- SCH-TE0710-02-100-2CF.PDF (Size: 3.61 MB / Modified: 09.03.2022 - 12:33:14)
- SCH-TE0710-02-100-2CPV.PDF (Size: 3.61 MB / Modified: 09.03.2022 - 12:33:11)
- SCH-TE0710-02-100-2IF.PDF (Size: 3.61 MB / Modified: 09.03.2022 - 12:33:08)
- SCH-TE0710-02-35-2CR.PDF (Size: 3.61 MB / Modified: 09.03.2022 - 12:33:20)
- SCH-TE0710-02-35-2IP.PDF (Size: 3.61 MB / Modified: 09.03.2022 - 12:33:17)
- SCH-TE0710-02-42121-A.PDF (Size: 3.61 MB / Modified: 09.03.2022 - 12:33:03)
- SCH-TE0710-02-72121-A.PDF (Size: 3.61 MB / Modified: 09.03.2022 - 12:33:00)

Free Wiki

Documentation, manuals, resource pages

The screenshot shows a web-based wiki interface for Trenz Electronic. At the top, there's a navigation bar with icons for user profile, search, and login, followed by the text "Trenz Electronic Wiki" and dropdown menus for "Bereiche" and "Personen". A prominent blue button labeled "Erstellen" (Create) is visible. Below the header is a sidebar containing a tree view of documentation categories:

- PCIe Cards
- FMC Cards
- CompactPCI Serial Cards
- JTAG Programmer
- CRUVI
- COM-HPC
- Starter Kits
- Development Boards
 - EDDP-EDPS Evaluation Platform
 - TE0802 Development Board
 - TEI0009 - C10LP RefKit
 - TEI0022
 - TEC0133 Power Card
- TE0950
 - TE0950 AN
 - TE0950 PCN
 - TE0950 Reference Designs
 - TE0950 Resources**
- Pmod-Compatible
- Others
- Cooling Solutions

The main content area displays the "TE0950 Resources" page. The title "TE0950 Resources" is bolded. Below it is a smaller text "Angelegt von John Hartfiel, zuletzt geändert am 20.06.2023". The page content includes a section titled "TE0950 - 12 x 15 cm Evaluation Board with AMD Versal Adaptive SoC" with a bulleted list of links to TRM, reference designs, PCN, and an advisory note. Another section titled "Links" contains a bulleted list of links to the shop, download area, and pinout/tracelength table. At the bottom, a "Support" section lists a link to the support forum. A footer at the very bottom shows a "Gefällt mir" (Like) button and the text "Sei der Erste, dem dies gefällt."

Bilingual Online Shop

with detailed descriptions and photos of the product, prices, block pricing, available stock, leadtime, disposability, scope of delivery and more

The screenshot shows a product page for a MPSoC Module with AMD Zynq™ UltraScale+™ ZU7EV-1E, 4 GByte DDR4, 5.2 x 7.6 cm. The page is in English, with German labels for currency and country selection. The product image shows a green printed circuit board with a central chip and various components. The price is listed as €1,699.00 (2,021.81 € gross) *. Below the price, it says "Ready to ship today. Delivery time appr. 1-3 workdays". A dropdown menu shows quantity options from 1 to 1000. The "Add to shopping cart" button is highlighted in blue. At the bottom, there are tabs for "Description", "Downloads", and "Resources", with "Description" currently selected.

Wiki Forum

€ EUR Service/Help

My account € 0.00 *

Home Products Download Company Services Jobs News Distributors

< Overview Products > New products

MPSoC Module with AMD Zynq™ UltraScale+™ ZU7EV-1E, 4 GByte DDR4, 5.2 x 7.6 cm

€1,699.00 (2,021.81 € gross) *

Prices plus VAT plus shipping costs

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

1 Add to shopping cart

Remember

Order number: TE0807-03-7DE21-AZ
In Stock: 108
Article status: Full production

Quantity	Unit price
To 9	€1,699.00 (2,021.81 € gross) *
From 10	€1,529.10 (1,819.63 € gross) *
From 25	€1,529.10 (1,819.63 € gross) *
From 50	€1,359.20 (1,617.45 € gross) *
From 100	€1,274.25 (1,516.36 € gross) *
From 250	€1,274.25 (1,516.36 € gross) *
From 500	€1,138.33 (1,354.61 € gross) *
From 1000	€1,138.33 (1,354.61 € gross) *

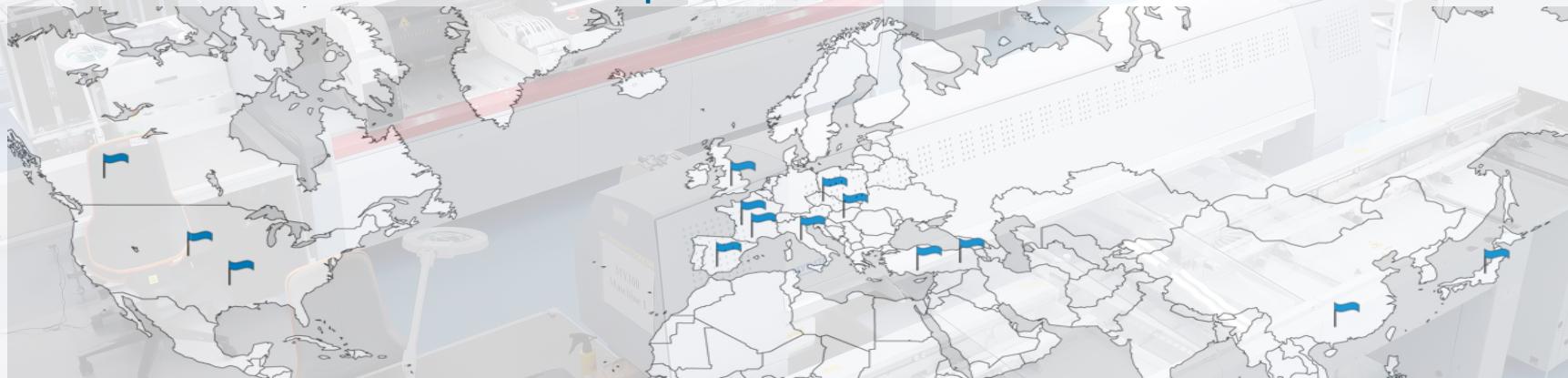
Description Downloads Resources

Product information "MPSoC Module with AMD Zynq™ UltraScale+™ ZU7EV-1E, 4 GByte DDR4, 5.2 x 7.6 cm"

The predecessor of this article is TE0807-02-7DE21-A. All changes are in the Product Change Notification (PCN).

Distributors all over the World

Global distribution: Digi-Key Electronics, Arrow Electronics, AVNET, RS Components, Mouser Electronics



Local distribution

Europe

Bulgaria, Czech Republic, France, Hungary, Israel, Italy, Poland, Romania, Spain, Turkey, United Kingdom

North America

Canada, USA

Asia

China, Hong Kong, India, Japan, Korea, Taiwan



Thank You!

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