

About Kontron

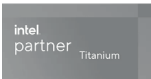
Kontron AG (www.kontron.com, ISIN AT0000A0E9W5, WKN A0X9EJ, KTN) is a leading IoT technology company. For more than 20 years, Kontron has been helping companies from a wide range of industries achieve their business goals with intelligent solutions. From automated industrial processes, smarter and safer transport to advanced communication, connectivity, medical and energy solutions, the company provides its customers with value-adding technologies. With the acquisition of Katek SE at the beginning of 2024, Kontron significantly strengthens its portfolio with the new GreenTec division in the areas of solar energy and eMobility and employs around 7,000 people in more than 20 countries worldwide. Kontron is listed on the SDAX® and TecDAX® of Deutsche Börse.

For more information, please visit: www.kontron.com

About the Intel® Partner Alliance

From modular components to market-ready systems, Intel and the over 1,000+ global member companies of the Intel® Partner Alliance provide scalable, interoperable solutions that accelerate deployment of intelligent devices and end-to-end analytics. Close collaboration with Intel and each other enables Alliance members to innovate with the latest IoT technologies, helping developers deliver first-in-market solutions.

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Global Headquarters

Kontron Europe GmbH

Gutenbergstraße 2
85737 Ismaning, Germany

Tel.: +49 821 4086-0
info@kontron.com
www.kontron.com

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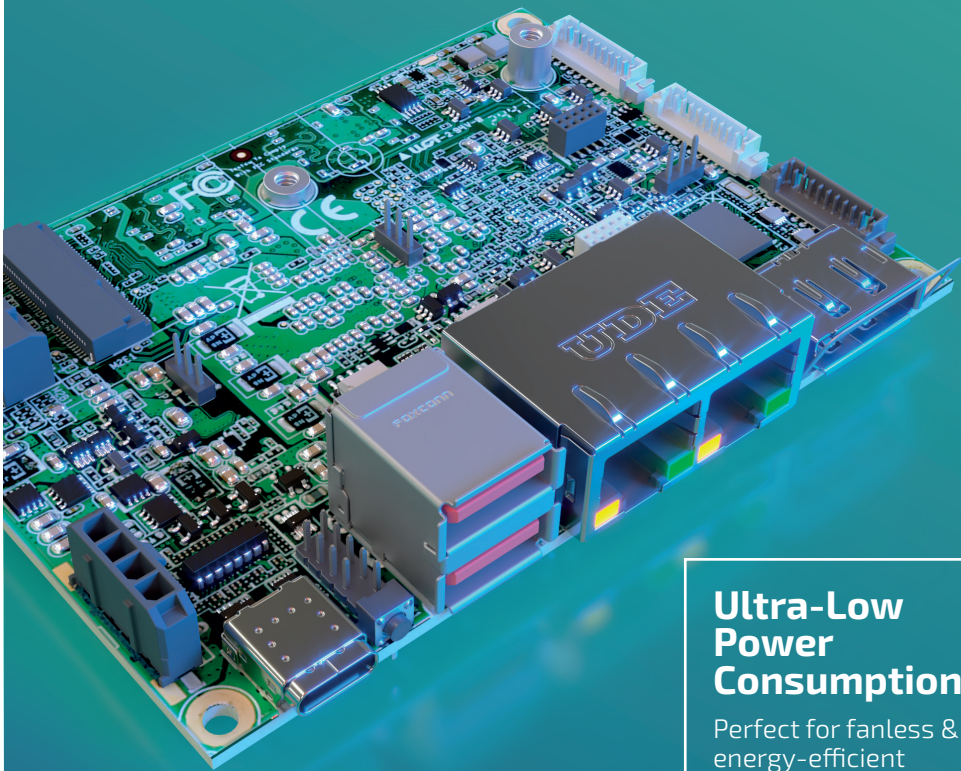
KTN25051-KEU 2.5SBC TecSpec / Version: 18. September 2025, 2:25 PM



2.5"

2.5" Single Board Computer

The Board for Ultra-Compact or Portable IoT Edge Systems



Ultra-Low Power Consumption

Perfect for fanless & energy-efficient applications

Commercial & Industrial Operating Temperature

For all environmental conditions

Ultra-Small Form Factor

Ideal to be integrated into a variety of ultra-compact & portable systems



2.5“ Single Board Computer

SYSTEM	PROCESSOR (STANDARD)	Intel Atom® x7277 RE (2C, 6M, 1.0/3.2 GHz, 6 W) x7433RE (4C, 6M, 1.5/3.4 GHz, 9 W) x7835RE (8C, 6M, 1.3/3.9 GHz, 12 W) Intel® Core™ i3-N305 (8C, 6M, 1B/3.8 GHz, 9-1s W) Intel® N97 (4C, 6M, 2.0/3.6 GHz, 12 W)
	PROCESSOR (PROJECT BASE)	Intel Atom® x7273RE (2C, 6M, 2.0/3.4 GHz, 9 W) x7277 E (2C, 6M, 1.0/3.2 GHz, 6 W) x7273E (2C, 6M, 1.7/3.2 GHz, 10 W) x7425E (4C, 6M, 1.5/3.4 GHz, 12W) Intel® N50 (2C, 6M, 1.0/3.4 GHz, 6 W) N200 (4C, 6M, 1.0/3.7 GHz, 6 W)
	MEMORY	4 / 8 / 16 GByte LPDDR5 4800 RAM
VIDEO	GRAPHICS CONTROLLER	Intel® UHD Graphics Gen12
	EDP	1 (4K@60Hz)
	DP	2 (4K@60Hz on rear)
	MULTIPLE DISPLAY	Triple
NETWORK CONNECTION	ETHERNET CONTROLLER	Intel® I226-V/IT
	2.5 GBE	2 (on rear, TSN support ⁽¹⁾)
PERIPHERAL CONNECTION	USB TYPE-C	1 (on rear, v3.2 Gen 2 ⁽²⁾ w/ DP & PD 5 V/ 3 A)
	USB 3.2 GEN 2/ USB 2.0	2 (on rear) / 2
	RS232/422/485 / RS232	0 / 2 ⁽³⁾ (default) 2 ⁽³⁾ / 0 (optional)
	DI/DO	4/4
STORAGE & EXPANSION	EMMC	32 / 64 / 128 GByte
	M.2 KEY B	1 (PCIe x2/USB2.0/SATA/UIM)
	M.2 KEY E	1 (PCIe x1/USB 2.0/CNVi(4))
POWER	INPUT VOLTAGE	DC 9V- 20V
FIRMWARE	BIOS	AMI uEFI BIOS w/ 256 Mb SPI Flash
	WATCHDOG	Programmable WDT, system reset
	H/W MONITORING	Voltages, Temperatures
	REAL TIME CLOCK	Processor integrated RTC
	SECURITY	TPM 2.0
SOFTWARE	OS SUPPORT	KontronOS, Windows 11, Windows 10, Linux
ENVIRONMENTAL	OPERATING TEMPERATURE	0° C ~ 60° C / 32° F ~ 140° F (Standard) -40° C ~ 85° C / -40° F ~ 185° F (Industrial)
COMPLIANCE	EMC	CE, FCC, ICES & UKCA Class B
	SAFETY	UR (UL Recognized)

(1) TSN support only for Intel Atom® x7000RE series
(2) Only USB 3.2 Gen 1 support for Intel Atom® x7000RE series
(3) Only Tx / Rx support for RS232 signal
(4) Intel Atom® x7000RE series does not support CNVi

More
Information



Kontron Software-Tools

We provide smart functional solutions through our software, hardware and expertise, helping you implement changes effectively. By combining our smart software with IoT/IIoT solutions, we enable you to build and enhance smarter machines.

We also work with you to develop new secure system solutions and business models for today's challenges based on the following tools:

KontronOS

- › Secure hardened Linux® based operating system KontronOS for edge device
- › Platform for secure operation of customer applications
- › For use in demanding industrial environments and supporting remoting functionalities

BSPs & SDKs

- › Specific board support package for all products
- › Windows and Linux support
- › Regular BIOS updates
- › Custom packages

KontronGrid

- › IoT device management solution for managing and monitoring globally distributed edge devices
- › Ideal for scalable and secure container and native application deployment
- › Integrated remote support, mass updates, and condition monitoring
- › Supports secure VPN tunneling, remote access (SSH, RDP) and Docker Compose

Kontron ToolSuite

- › Comprehensive management solution for BIOS modifications and updates
- › Used for hardware monitoring and system configuration across multiple client devices from a central server
- › Other features like fan settings, monitoring of active client devices and observation of key system parameters



**SMART
BETTER
CONNECTED**

Smart

Better

Connected

With Kontron ToolSuite, Hardware Management at the Next Level

Through Use of Industrial, Long-Term Available Components

With KontronOS and KontronGrid for Secure Edge Operations and IoT Device Management

