

D3713-V/R mITX



The industrial motherboard D3713-V/R mITX is "designed by Fujitsu" and supports the AMD Ryzen™ Embedded V1000 and R1000 series processors. It features the SoC integrated AMD Radeon™ Vega GPU with particularly brilliant graphics and supports up to four independent displays in 4K resolution via display ports, an embedded display port and a dual-channel LVDS (24bit). Depending on how much (graphical) performance is required, there are 6 motherboard versions with different AMD processors available. In addition to that, Kontron provides a suitable chassis kit solution - the SMARTCASE™ S711. With the D3713-V/R motherboard, chassis, a cooling solution and further, extensive accessories, Kontron's customers can build their own Box PC according to their individual needs.

▶ The Kontron D3713-V/R mITX can be used in different applications with high graphical requirements:

- ▶ Casino Gaming
- ▶ Medical Displays
- ▶ Signage / Media Player
- ▶ Industrial PCs
- ▶ and many more



About Kontron – Member of the S&T Group

Kontron is a global leader in IoT/Embedded Computing Technology (ECT). As a part of technology group S&T, Kontron offers a combined portfolio of secure hardware, middleware and services for Internet of Things (IoT) and Industry 4.0 applications. With its standard products and tailor-made solutions based on highly reliable state-of-the-art embedded technologies, Kontron provides secure and innovative applications for a variety of industries. As a result, customers benefit from accelerated time-to-market, reduced total cost of ownership, product longevity and the best fully integrated applications overall.

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



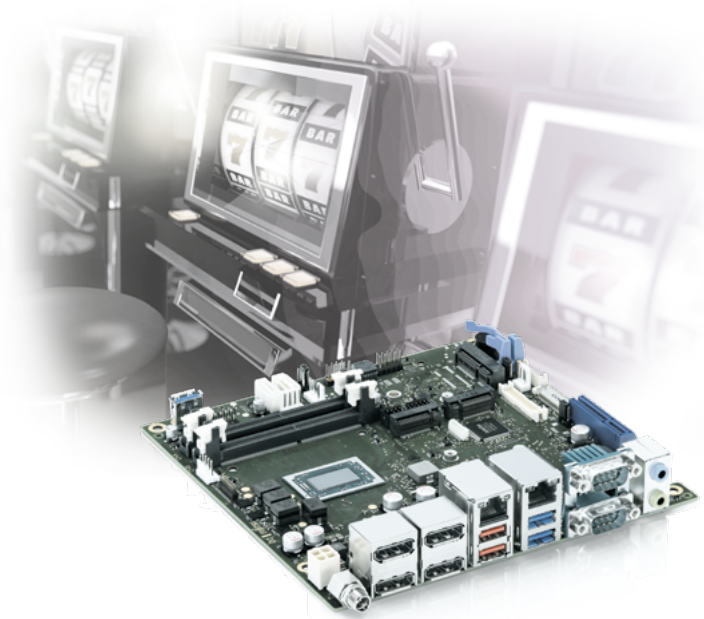
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D3713-V/R mITX Industrial Series



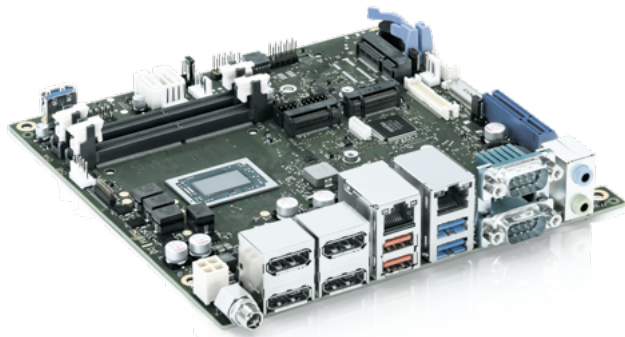
AMD Ryzen™ Embedded V1000/R1000 Series SoC Platform for AMD FP5 SoC Processor

- ▶ AMD Radeon™ Vega graphics (within SoC)
- ▶ Up to 4x DisplayPort V1.4
- ▶ Dual channel LVDS (24 Bit) & eDP V1.3 (4 k) onboard
- ▶ Designed for fanless operation
- ▶ M.2 Key-B & M.2 Key M & Mini-PCI Express® supported

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POSSIBILITIES START HERE





TECHNICAL INFORMATION



BASE BOARD	DIMENSIONS
CPU SUPPORT	CHIPSET
	PROCESSOR
	PROCESSOR SOCKET
	MAX. PROCESSOR POWER CONSUMPTION
	CPU TDP LIMITING OPTION
	HIGH EFFICIENCY CORE VOLTAGE REGULATOR
MEMORY	MAX. CAPACITY / NUMBER OF SOCKETS
	RAM SPEED
GRAPHICS	ONBOARD GRAPHICS
	GRAPHICS INTERFACES
ETHERNET	ONBOARD LAN CONTROLLER
AUDIO	TYPE
	ONBOARD AUDIO CONTROLLER
	BUZZER / SPEAKER / S/PDIF HEADER
EXTENSION SLOTS & EXTERNAL/INTERNAL CONNECTORS	PCIe x16 / x8 / x4 / x1 / PCI
	USB PORTS 3.1 GEN2 / 3.1 GEN1 / 2.0 / STICK SOCKET
	SATA PORTS / SATA RAID
	COM PORT INT. HEADER / EXT. / PARALLEL PORT INT. HEADER
	Mini-PCIe / mSATA
	M.2 SSD (PCIe AND/OR SATA)
	M.2 WLAN (KEY-E)
POWER SUPPLY OPTIONS	EXTERNAL & INTERNAL SUPPLY
MISCELLANEOUS	FANSPEED CUSTOMIZING
	TPM V2.0
	CHASSIS INTRUSION SUPPORT HW
	WATCHDOG
	MISCELLANEOUS



6.7" x 6.7" (170 x 170 mm)
Embedded V1000/R1000 Series SoC (Ryzen)

V1: V1202B Dual-Core 2.3/3.2 GHz
V2: V1605B Quad-Core 2.0/3.6 GHz
V4: V1807B Quad-Core 3.35/3.8 GHz
R1: R1102G Dual-Core 1.2/2.6 GHz
R2: R1305G Dual-Core 1.5/2.8 GHz
R4: R1606G Dual-Core 2.6/3.5 GHz
AMD FPS
V1: 15 W/12-25 W TDP
V2: 15 W/12-25 W TDP
V4: 45 W/35-54 W TDP
R1: 6 W TDP
R2: 8 W/8-10 W TDP
R4: 15 W/12-25 W TDP
+
+

32 GByte/2
DDR4 2400/3200, ECC Option

AMD Radeon™ Vega Graphics (within SoC)
up to 4x DP V1.4/1x eDP @ 4 lanes/1x LVDS

1x Intel® i210, 1x Realtek RTL8111H

Stereo
Realtek ALC256
+ / + / +

- / - / 1 / - / -

2 / 4 / 2 /

1

2 / -

2 / 2 /

-

+ / -

1x M.2 Key-M (PCIe x4)
R-Series: M.2 Key-M socket
shared with PCIe x4 slot
(M.2 or PCIe slot usable; BIOS Setup option)
1x M.2 Key-B (SATA or PCIe)

-

8 V - 36 V

+
+ (AMD); Infineon module optional

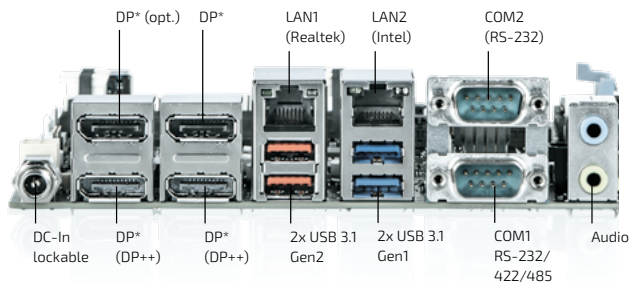
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No Legacy OS Support
4x COM (1x incl. RS-232/-422/-485 Support)
GPIO
Support for Dual-Riser
(4+1 lanes; V-series only)

▶ PRODUCT HIGHLIGHTS

- ▶ AMD Radeon™ Vega Graphics (within SoC)
- ▶ Up to 4x DisplayPort V1.4
- ▶ Dual Channel LVDS (24Bit) and eDP V1.3 (4k) onboard
- ▶ PCI Express® x4 (Gen3)
- ▶ 8 Bit GPIO & HD Audio onboard
- ▶ USB 2.0 and USB 3.1 (Gen1/Gen2) onboard
- ▶ 2x SATA III; USB Stick Socket
- ▶ Onboard support for 1x M.2 SSD (Key-M: 2230/2242/2280)
- ▶ Onboard support for 1x M.2 (Key-B: 2242/2252/2260/2280)
- ▶ Onboard support for 1x Mini-PCIe (halfsize/fullsize)
- ▶ Dual GbE LAN onboard incl. Teaming Support
- ▶ AMD integrated TPM V2.0 onboard & socket for optional TPM Module
- ▶ WideRange DC Input 8-36 V



* R-Series: 3x DP

▶ Learn more about motherboards „Designed by Fujitsu“:

www.kontron.com/products/boards-and-standard-form-factors/motherboards/