

INDUSTRIAL MOTHERBOARDS

based on AMD Processors



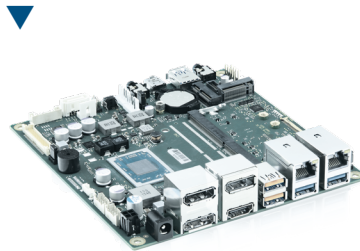
D3714-V/R mSTX

D3713-V/R mITX

High connectivity combined with impressive graphics performance

- ▶ One Motherboard family supporting the AMD Ryzen™ Embedded V1000 and R1000 processor series
- ▶ SoC integrated AMD Radeon™ Vega GPU for brilliant graphics performance on multiple display options
- ▶ Suitable chassis kit solutions available to build a box PC
- ▶ Designed and made in Germany

D3714-V/R mSTX



▶ PRODUCT HIGHLIGHTS

- ▶ Up to 3x DisplayPort V1.4 plus HDMI V2.0b
- ▶ Dual Channel LVDS (24Bit) and eDP V1.3 (4k)
- ▶ 8 Bit GPIO & HD Audio
- ▶ USB 2.0 and USB 3.1 (Gen1/Gen2)
- ▶ 1x SATA III
- ▶ 1x M.2 SSD (Key-M: 2230/2242/2280)
- ▶ 1x M.2 WLAN/Bluetooth (Key-E: 2230)
- ▶ AMD integrated TPM V2.0
- ▶ Auto Dual Range internal/external DC Input (12 V or 19-28 V)
- ▶ RS-232/485/422 support

▶ SUITABLE ACCESSORIES

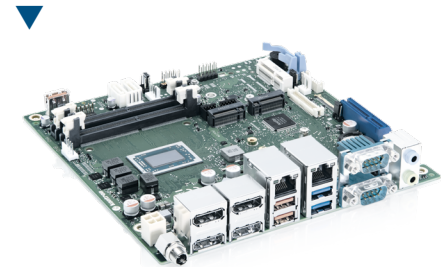
- ▶ SMARTCASE™ S511*



- ▶ Passive* and active cooling solutions
- ▶ AC adapters (external)
- ▶ Various cables and adapters
- ▶ WiFi kits
- ▶ Mounting options

*only R1 and R2

D3713-V/R mITX



▶ PRODUCT HIGHLIGHTS

- ▶ Up to 4x DisplayPort V1.4
- ▶ Dual Channel LVDS (24Bit) and eDP V1.3 (4k)
- ▶ PCI Express® x4 (Gen3)
- ▶ USB 2.0 and USB 3.1 (Gen1/Gen2)
- ▶ 2x SATA III and USB Stick Socket
- ▶ 1x M.2 SSD (Key-M: 2230/2242/2280)
- ▶ 1x M.2 (Key-B: 2242/3052/2260/2280)
- ▶ 1x Mini-PCIe (halfsize/fullsize)
- ▶ AMD integrated TPM V2.0 & socket for optional TPM Module
- ▶ Wide Range DC Input 8-36 V

▶ SUITABLE ACCESSORIES

- ▶ SMARTCASE™ S711



- ▶ Passive and active cooling solutions
- ▶ AC adapters (internal and external)
- ▶ Various cables and adapters
- ▶ WiFi kits

TECHNICAL INFORMATION



AMD



AMD



INDUSTRIAL SERIES

D3714-V/R mSTX

D3713-V/R mITX

BASE BOARD	DIMENSIONS CHIPSET	5.5" x 5.8" (140 x 148 mm) AMD Embedded Ryzen™ V1000/R1000 Series SoC	6.7" x 6.7" (170 x 170 mm) AMD Embedded Ryzen™ V1000/R1000 Series SoC
CPU SUPPORT	PROCESSOR	R1: R1102G Dual-Core 1.2/2.6 GHz R2: R1305G Dual-Core 1.5/2.8 GHz V2: V1605B Quad-Core 2.0/3.6 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 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
	PROCESSOR SOCKET MAX. PROCESSOR POWER CONSUMPTION	AMD FP5 R1: 6 W TDP R2: 8 W/10 W TDP V2: 12 W/15 W/25 W TDP	AMD FP5 R1: 6 W TDP R2: 8 W/10 W TDP R4: 12 W/15 W/25 W TDP V1: 12 W/15 W/25 W TDP V2: 12 W/15 W/25 W TDP V4: 35 W/45 W/54 W TDP
	CPU TDP LIMITING OPTION	yes	yes
MEMORY	MAX. CAPACITY / NUMBER OF SOCKETS RAM SPEED	32 GByte/2 DDR4 2400/3200, ECC Option	32 GByte/2 DDR4 2400/3200, ECC Option
GRAPHICS	ONBOARD GRAPHICS GRAPHICS INTERFACES	AMD Radeon™ Vega Graphics (within SoC) up to 3x DP V1.4/HDMI V2.0b/ 1x eDP @4 lanes/1x LVDS	AMD Radeon™ Vega Graphics (within SoC) up to 4x DP V1.4/ 1x eDP @4 lanes/1x LVDS
ETHERNET AUDIO	ONBOARD LAN CONTROLLER TYPE	1x Intel® i210, 1x Realtek RTL8111 Stereo Realtek ALC256 + / + / -	1x Intel® i210, 1x Realtek RTL8111 Stereo Realtek ALC256 + / + / +
EXTENSION SLOTS & EXTERNAL/INTERNAL CONNECTORS	ONBOARD AUDIO CONTROLLER BUZZER / SPEAKER / S/PDIF HEADER	PCle 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. Mini-PCle / mSATA M.2 SSD (PCle AND/OR SATA)	PCle 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. Mini-PCle / mSATA M.2 SSD (PCle AND/OR SATA)
	M.2 WLAN (KEY-E)	1 / - 2 / - - / - 1x M.2 Key-M: (PCle x4)	1 / - 2 / - 2 / 2 + / - 1x M.2 Key-M (PCle x4) R-Series: M.2 Key-M socket shared with PCle x4 slot (M.2 or PCle slot usable; BIOS Setup option) 1x M.2 Key-B (SATA or PCle) -
POWER SUPPLY OPTIONS MISCELLANEOUS	EXTERNAL & INTERNAL SUPPLY FANSPEED CUSTOMIZING TPM V2.0 CHASSIS INTRUSION SUPPORT HW WATCHDOG MISCELLANEOUS	12 V / 19-28 V + + (AMD integrated) + +	8 V - 36 V + + (AMD); Infineon module optional + + No Legacy OS Support 1x COM incl. RS-232/-422/-485 Support; GPIO

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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