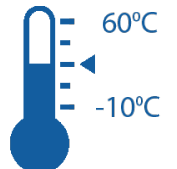


# EM-VAL-I13

Powerfull Industrial PC



## Specification

<b>Chassis</b>	Dimensions (W x L x H): 192 x 203 x 68 mm
	Colour: silver / black / on request (min. 20 pcs)
<b>Drive bays internal positions</b>	Material: galvanized pre-coated metal sheet
	2x 2.5" HDD, 1x m.2 2280 SSD
	MB: 170 x 170mm, mini-ITX form factor (Kontron D3713-V/R)
<b>Front panel</b>	Integrated I/O shield
	Power button with LED backlight
<b>Rear panel</b>	Optional: 2x USB 2.0, 2x USB 3.1 Gen1, 2x RS232 (COM3/COM4)
	4x DisplayPort V1.4 (1x opt.), 2x RS232 (1x RS485/422 support)
	2x GLAN, 4x USB 3.1 (2x Gen1, 2x Gen2)
<b>Mounting options</b>	DC-In connector 8-36V, Audio (Line in/out)
	Wall mount (pair)
	VESA holder
	other customization: (min. 20 pcs)



All product specifications are subject to change without notice.



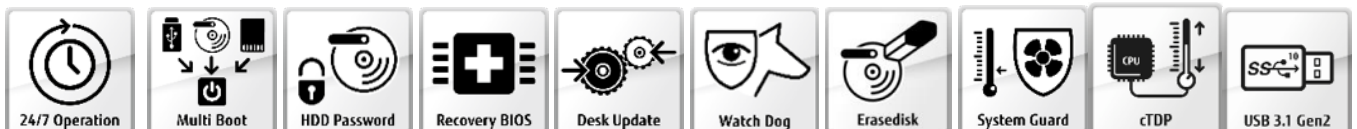
# Mainboard

D3713-V/R mini-ITX



**AMD Embedded V1000/R1000 Series SoC**  
Designed and approved for 24/7 continuous operation @ -10-60°C

<b>Supported Memory</b>	2x DDR4 3200/2400 SDRAM (SO-DIMM), up to 32GB
<b>CPU options</b>	AMD Ryzen™ Embedded V1000 / R1000 Series
	V1: AMD Embedded V1202B SoC (Dual Core 2.3/3.2GHz 12-25W TDP)
	V2: AMD Embedded V1605B SoC (Quad Core 2.0/3.6GHz 12-25W TDP)
	V4: AMD Embedded V1807B SoC (Quad Core 3.3/3.8GHz 35-54W TDP)
R2: AMD Embedded R1305G SoC (Dual Core 1.5/2.8GHz 8-10W TDP)	
R4: AMD Embedded R1606G SoC (Dual Core 2.6/3.5GHz 12-25W TDP)	
<b>I/O Interface</b>	AMD Radeon™ Vega Graphics
	4x DisplayPort V1.4 (V series) / 3x DisplayPort V1.4 (R series)
	Audio: Line in / Line out, Realtek ALC256 HDAC
	2x USB 2.0 (opt.), 4x USB 3.1 Gen1 (2x opt.), 2x USB 3.1 Gen2
	1x RS232/422/485; 3x RS232 (2x by header)
	2x SATA III - 6Gbs
	1x M.2 PCIe x4 (Key-M: 2280/2242/2230)
	1x M.2 PCIe x2 (Key-B: 2280/2260/2252/2242)
Mini PCIe module (half/full size), 1x PCI Express x4 Gen3	
2x GbE LAN onboard (Intel i210 & Realtek RTL8111H)	
External DC Input (8-32V/36V, max. 10A)	
<b>Product features</b>	System Guard / cTDP
	Wake-on-LAN (WoL)
	HW Watchdog / Intel® TPM V2.0 onboard



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