

Article-No.: 145877

## Calmo R4 19" Industrieserver

i5-12400, 8GB, 250GB SSD, W11Pro

### Technical data

<b>processor</b>	New List Value
<b>installed operating system</b>	Windows® 11 Pro 64-bit
<b>installed memory</b>	8 GB DDR5 PC4800
<b>hard disk</b>	256 GB SSD 2.5" SATA3 at 6 Gb/s
<b>optical drive</b>	DVD-RW slimline
<b>mainboard</b>	Powered by Kontron® - Made in Germany
<b>marking</b>	New List Value
<b>hint</b>	CPUs of the 12th and 13th generation are supported up to a maximum of 125W TDP
<b>working memory max.</b>	4x DDR5 PC4800, max. 128 GB (optional ECC)
<b>graphic onBoard</b>	New List Value
<b>max. resolution DisplayPort</b>	7,680 x 4,320 pixels @60Hz (DisplayPort 1.4a)
<b>PXE support</b>	yes
<b>Wake on LAN (WOL) support</b>	yes
<b>iAMT</b>	yes
<b>audio</b>	Tempo 92HD91B 5.1-Kanal High Definition Audio
<b>rear interfaces</b>	2x USB 3.2 Gen2 (10Gbit/s), 1x USB 3.2 Gen2 (10Gbit/s) Typ-C™ 4x USB 3.2 Gen1 (5Gbit/s), 4x DisplayPort 1.4a, 3x LAN, RS-232, Audio
<b>expansion slots</b>	1x PCIe® x16 5.0, 1x PCIe® x16 (at x4) 4.0, 1x PCIe® x8 (at x4) 4.0 "open slot", 1x PCIe® x8 (at x4) 3.0 "closed slot", 2x PCIe® x1 3.0 "open slot", 1x PCI, 2x M.2 NVMe Key-M 2230/2242/2280 incl. NVMe RAID, M.2 Key-E 2230
<b>RAID NVMe onBoard</b>	0/1
<b>internal interfaces</b>	USB 3.2 Gen1 (5Gbit/s), USB 2.0, 2x USB Stick, 3x seriell, PS2, TPM 2.0, 4x SATA3 (6Gb/s), Chassis Intrusion-Header, GPIO, S-PDIF
<b>RAID SATA3 onBoard</b>	0/1/5/10
<b>24-hour continuous operation</b>	yes
<b>chassis</b>	CHENBRO® 4HE RM42300
<b>front interfaces</b>	2x USB 3.0, power button, reset button
<b>external drive bays</b>	3x 5.25", 1x 3.5"
<b>internal drive bays</b>	4x 3,5"
<b>particularity</b>	incl. card holder, rubber-mounted drive basket, front filter
<b>safety</b>	lockable 2-door front flap, intrusion switch
<b>degree of protection</b>	IP 20
<b>color</b>	black/silver
<b>dimensions (W x H x D)</b>	430 x 176 x 445 mm
<b>power supply</b>	Fortron® 350 Watt, 80 PLUS Gold certified, super-silent, 120 mm power supply fan 7x24h



### Highlights

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<b>24/7 suitable</b>	yes
<b>Service</b>	2 years Bring-In
<b>slot bracket extension</b>	1x serial (slot bracket with 9pin serial plug)
<b>interface</b>	internal 2mm COM
<b>Langzeitverfügbarkeit</b>	2030
<b>operating temperature</b>	-10°C to 50°C   Cold boot at -40°C tested several times, permanently stable at -10°C
<b>atmospheric humidity</b>	0% to 90% (non-condensing)
<b>conformance</b>	yes
<b>grade</b>	EXTRA Computer has a quality management system which is certified according to DIN ISO 9001

