

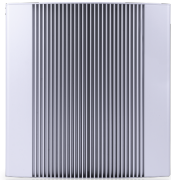
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# Calmo S Ryzen

R1102G, 4GB RAM, 250GB SSD

## Technical data

|                             |                                                       |
|-----------------------------|-------------------------------------------------------|
| Main storage                |                                                       |
| size                        | 4 GB                                                  |
| technology                  | DDR4 SO-DIMM                                          |
| form factor                 | SO-DIMM                                               |
| connector                   | 260-pole                                              |
| speed                       | 2666 MHz                                              |
| Hard disk                   |                                                       |
| memory capacity             | 250 GB                                                |
| type                        | M.2 2280                                              |
| interface                   | M.2 PCIe® 3.0 x4 with max. 32 Gb/s (NVMe®)            |
| Mainboard Industry          |                                                       |
| manufacturer                | Kontron®                                              |
| marking                     | D3713-R1                                              |
| form factor                 | Mini-ITX                                              |
| socket                      | CPU vibration resistant soldered                      |
| CPU onBoard                 | AMD Ryzen Embedded R1102G (2x 1,20 GHz up to 2,60 GHz |
| chipset                     | SoC                                                   |
| working memory max.         | 1x SO-DIMM DDR4 PC2400, max 32 GB (ECC + Non-ECC)     |
| memory max. size            | 32 GB                                                 |
| memory Slots                | 1                                                     |
| memory Technology           | DDR4 SO-DIMM                                          |
| graphic onBoard             | AMD Radeon™ VEGA                                      |
| max. resolution DisplayPort | 4,096 x 2,304 pixels @60Hz (DisplayPort 1.4)          |
| network                     |                                                       |
| network chipset I           | Intel® i210                                           |
| transmission rate           | 10/100/1000 Mbps                                      |
| network chipset II          | Realtek RTL8111H                                      |
| transmission rate           | 10/100/1000 Mbps                                      |
| PXE support                 | yes                                                   |
| Wake on LAN (WOL) support   | yes                                                   |
| Auto-Power-On function      | yes                                                   |
| audio                       |                                                       |
| audio chipset               | Realtek ALC 256                                       |
| sound mode                  | 5.1-channel high definition                           |
| rear interfaces             |                                                       |
| USB 3.1                     | 4                                                     |



## Highlights



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|                                                   |                                                                                                                  |
|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| DisplayPort                                       | 2                                                                                                                |
| LAN (RJ-45)                                       | 2                                                                                                                |
| audio                                             | line-in, line-out                                                                                                |
| serial                                            | 2                                                                                                                |
| DC-IN                                             | 1                                                                                                                |
| expansion slots                                   | 1x PCIe® x4 3.0, 1x M.2 M-Key 2230\2242\2280, 1x M.2 B-Key 3042/3052/2260/2280, 1x MiniPCIe® (fullsize/halfsize) |
| expansion slots                                   |                                                                                                                  |
| PCI Express x4 3.0                                | 1                                                                                                                |
| mini PCI Express (half-size/full-size with mSATA) | 1                                                                                                                |
| M.2 Key-B SATA                                    | 1                                                                                                                |
| internal interfaces                               |                                                                                                                  |
| USB 3.2 Gen1 (5Gbit/s)                            | 1                                                                                                                |
| USB 2.0                                           | 2                                                                                                                |
| USB 2.0 stick                                     | 1                                                                                                                |
| RS-232                                            | 1                                                                                                                |
| RS-232/422/485                                    | 1                                                                                                                |
| Trusted Platform Module (TPM)                     | yes                                                                                                              |
| GPIO                                              | 8-bit I/O                                                                                                        |
| LVDS                                              | yes                                                                                                              |
| backlight inverter                                | yes                                                                                                              |
| SATA3 (6Gb/s)                                     | 2                                                                                                                |
| SATA Power out                                    | 1                                                                                                                |
| operating voltage I                               | 8 - 36V DC                                                                                                       |
| current consumption                               | 10 A                                                                                                             |
| 24-hour continuous operation                      | yes                                                                                                              |
| available until                                   | 2027                                                                                                             |
| Housing Industry                                  |                                                                                                                  |
| manufacturer                                      | exone                                                                                                            |
| type                                              | fanless                                                                                                          |
| form factor                                       | Mini-ITX                                                                                                         |
| fanless                                           | yes                                                                                                              |
| particularity                                     | Robust aluminium industrial housing                                                                              |
| installation option                               | Wall mounting via optional housing rails possible                                                                |
| degree of protection                              | IP 50                                                                                                            |
| color                                             | silver                                                                                                           |
| dimensions (W x H x D)                            | 215 x 70 x 224 mm                                                                                                |
| dimensions with expansion slot (W x H x D)        | 215 x 100 x 224 mm / 215 x 130 x 224 mm                                                                          |

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### Housing Industry Accessories

#### Front module

|                         |     |
|-------------------------|-----|
| front interface USB 3.0 | 2   |
| power switches          | yes |

#### Power supply

|                                     |                                     |
|-------------------------------------|-------------------------------------|
| manufacturer                        | Fortron                             |
| form factor                         | outboard                            |
| type                                | External industry                   |
| power                               | 84 Watt                             |
| 24/7 suitable                       | yes                                 |
| refrigeration                       | unfavourable                        |
| particularity                       | with pull-off-proof screw plug      |
| Suitable for                        | Calmo S, M, UNI Pro, UNI Ryzen      |
| input voltage range                 | 90 - 264V AC V                      |
| certification                       | 80 PLUS Bronze                      |
| efficiency level                    | VI                                  |
| output voltage                      | 12 V                                |
| output voltage Ampere               | 7 A                                 |
| polarization                        | DC                                  |
| hollow plug Outer diameter          | 5,5 mm                              |
| hollow plug Depth                   | 12 mm                               |
| plug for external power supply unit | Hollow plug 5,5 mm x 2,5 mm x 12 mm |
| hollow plug inner diameter          | 2,5 mm                              |
| hollow plug Polarity                | Plus inside                         |
| hollow plug angle                   | 180°                                |
| current supply                      | IEC14 connector (10A)               |
| operating temperature range         | 0°C to 70°C                         |
| storage temperature range           | 20°C to 80°C                        |
| width                               | 108 mm                              |
| hight                               | 30 mm                               |
| deepth                              | 49,2 mm                             |
| CCC                                 | yes                                 |
| TÜV                                 | TÜV GS                              |

#### Service

|         |                  |
|---------|------------------|
| Service | 2 years Bring-In |
|---------|------------------|

#### System

#### Ambient conditions

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|                      |                                                                                             |
|----------------------|---------------------------------------------------------------------------------------------|
| noise emission       | 0 dB(A)                                                                                     |
| atmospheric humidity | 0% to 90% (non-condensing)                                                                  |
| Certifications       |                                                                                             |
| conformance          | CE                                                                                          |
| grade                | EXTRA Computer has a quality management system which is certified according to DIN ISO 9001 |
| Service note         |                                                                                             |