

Article-No.: 143332

# Calmo TINY Ryzen

## AMD R1102G 4GB RAM, 250GB NVMe

small IPC with capable graphics

The Calmo TINY Ryzen has the same form factor and energy-saving approach as the Calmo TINY Entry, but the AMD Ryzen embedded CPUs are capable of running up to three 4K displays at the same time instead of two, although the device is fanless and thus absolutely silent in continuous operation. Especially for displaying information in production and logistics as well as a digital signage client, the Calmo TINY Ryzen plays to its strengths.

### 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	D3714-R1
form factor	Mini-STX
socket	CPU vibration resistant soldered
CPU onBoard	AMD Ryzen Embedded R1102G (2x 1,20 GHz up to 2,60 GHz
working memory max.	2x DDR4 PC2400, max 32 GB (ECC + Non-ECC)
memory max. size	16 GB
memory Slots	2
memory Technology	DDR4 SO-DIMM
graphic onBoard	AMD Radeon™ VEGA
max. resolution HDMI	3,840 x 2,160 pixels @60 Hz
max. resolution DisplayPort	3,840 x 2,160 pixels @60 Hz
network	
network chipset I	Intel® i210
transmission rate	10/100/1000 Mbps
network chipset II	Realtek RTL8111
transmission rate	10/100/1000 Mbps
PXE support	yes
Wake on LAN (WOL) support	yes
Auto-Power-On	yes



### Highlights

- Radeon VEGA Graphics
- USB-Type C
- No moving parts
- Available until 2027



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function	
audio	
audio chipset	Realtek ALC 256
sound mode	5.1-channel high definition
interfaces in front	
USB 3.1	2
audio	line-in, line-out
rear interfaces	
USB 3.1	4
HDMI	1
DisplayPort	1
LAN (RJ-45)	2
DC-IN	1
expansion slots	1x M.2 M-key 2230/2242/2280, 1x M.2 E-key 2230
expansion slots	
M.2 Key-E WLAN	1
internal interfaces	
USB 2.0	1
RS-232	1
RS-232/422/485	1
Trusted Platform Module (TPM)	yes (TPM 2.0)
GPIO	8-bit I/O
LVDS	yes
backlight inverter	yes
SATA3 (6Gb/s)	1
SATA Power out	1
operating voltage I	12V DC
operating voltage II	19 - 28V DC
24-hour continuous operation	yes
available until	2027
Housing Industry	
manufacturer	Kontron®
type	Mini STX
form factor	Mini-STX
Front interface USB 3.2 Gen1 (5GBit/s) Type-C™	1
Front interface USB 3.2 Gen1 (5GBit/s)	1
front interface Audio	2



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power switches	yes
fanless	yes
particularity	ultra-compact metal housing incl. stand and VESA option
installation option	optional VESA, Hutschiene, Standfuß
VESA	New List Value
can be used vertically	yes
horizontally applicable	yes
19" Convertible	optional
safety	Kensington Lock
degree of protection	IP 20
color	black
dimensions (W x H x D)	147 x 36 x 165 mm
Power supply	
manufacturer	Fortron
form factor	outboard
type	outboard
power	65 Watt
refrigeration	unfavourable
Suitable for	UNI Entry, Tiny Entry, Tiny Ryzen, Tab K11, K11B
input voltage range	110 - 240V AC V
current draw	1,5 A
efficiency level	VI
output voltage	19 V
output voltage Ampere	3,42 A
hollow plug Outer diameter	5,5 mm
hollow plug Depth	11 mm
hollow plug inner diameter	2,5 mm
plug for external power supply unit	Hollow plug 5,5mm x 2,5mm x 11mm
hollow plug Polarity	Plus inside
hollow plug angle	90°
current supply	IEC6 three-pin connector
power switches	no
operating temperature range	0°C to 70°C
storage temperature range	20°C to 80°C
operating Humidity	20% to 80% (non-condensing)
humidity (storage)	10% to 90% (non-condensing)
width	47 mm
hight	30 mm
deepth	110 mm

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heart rate	50 - 60 Hz
Certifications	
External power supply unit	VI
CCC	yes
cUL	yes
TÜV	TÜV Rheinland
GS	Yes
RoHS	yes
EAC	ja
Service	
Service	2 years Bring-In Extension on request
service note	Available until 2023

## Mainboard Accessories

### Slot bracket extension

slot bracket extension	1x serial (slot bracket with 9pin serial plug)
interface	internal 2mm COM

### System

cooling	unfavourable
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### Ambient conditions

noise emission	0 dB(A)
operating temperature	-10°C to 60°C
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