

Article-No.: 149088

Calmo M G12

i5-12400, 8GB, 250GB SSD

Technical data

Processor

manufacturer	Intel®
marking	Core™ i5
type	12400
cpu socket	LGA1700
cores	6
Performance Cores	6
threads	12
clock rate	2,50 GHz
clock rate (Power Core)	4,40
max. clock frequency with Intel® Turbo Boost technology	4,40 GHz
L2 Cache	7500 KB
L3 Cache	18 MB
smartCache	18 MB
bit set	64 bit
max. TDP	65 Watt
max. TDP Turbo	117 Watt
processor graphic	Intel® UHD Graphics 730
Intel® Hyper-Threading Technology	yes
Intel® Virtualization Technology (VT-x)	yes

Main storage

size	8 GB
technology	DDR5 SO-DIMM
form factor	SO-DIMM
connector	262-pole
speed	4800 MHz
tension	1,1 V

Hard disk

memory capacity	250 GB
type	M.2 2242
interface	M.2 PCIe® 4.0 x4 with max. 64 Gb/s (NVMe®)

Mainboard Industry

manufacturer	Kontron®
marking	K3832-Q
form factor	Mini ITX
socket	LGA1700

Highlights

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hint	CPU's of the 12th and 13th generation are supported up to a maximum of 65W TDP
chipset	Intel® Q670E
working memory max.	2x SO-DIMM DDR5 PC4800, max. 64 GB
memory max. size	64 GB
memory Slots	2
memory Technology	DDR5 SO-DIMM
graphic onBoard	New List Value
max. resolution DisplayPort	7,680 x 4,320 pixels @60Hz (DisplayPort 1.4a)
network	
network chipset I	Intel® i226LM
transmission rate	10/100/1000/2500 MBit/s
network chipset II	Intel® i219LM
transmission rate	10/100/1000 Mbps
PXE support	yes
Wake on LAN (WOL) support	yes
iAMT	yes
Auto-Power-On function	yes
audio	
audio chipset	Tempo 92HD91B
sound mode	5.1-channel high definition
rear interfaces	
USB 3.2	5
USB 3.2 Typ C	1
USB 2.0	2
DisplayPort	2
LAN (RJ-45)	2
audio	line-in, line-out
expansion slots	1x PCIe® x16 5.0, 1x M.2 M-Key 2242, 1x M.2 E-Key 2230
expansion slots	
PCI Express x16 5.0	1
M.2 Key-M PCIe NVMe	1
M.2 Key-E WLAN	1
internal interfaces	
USB 3.2 Gen1 (5Gbit/s)	1
USB 2.0	1
RS-232	2
Trusted Platform Module (TPM)	yes (TPM 2.0)

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GPIO	8-bit I/O
LVDS	yes
operating voltage I	12V DC
24-hour continuous operation	yes

Housing Industry

manufacturer	exone
form factor	Mini-ITX
power switches	yes
reset switch	no
5,25" external slimline	no
2.5" internal	2
fanless	yes
degree of protection	IP 50
color	silver
dimensions with feet (W x H x D)	260 x 93 x 237 mm
dimensions without feet (W x H x D)	260 x 87 x 237 mm

Housing Industry Accessories

Front module

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

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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
KIOSK	
KIOSK	
KIOSK	BIOS will throttle CPU to 25W TDP
System	
cooling	unfavourable
Ambient conditions	
noise emission	0 dB(A)
operating temperature	-5°C to 55°C Cold boot at -40°C tested several times, permanently stable at -5°C
Certifications	
grade	EXTRA Computer has a quality management system which is certified according to DIN ISO 9001
Service note	