

Article-No.: 132850

Calmo Panel-PC Thin Client 15,6" VESA

J4005, 4GB RAM, 120GB SSD, W10IoT

Technical data

Service

Service	2 years Bring-In Extension on request
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Operating system

installed operating system	Windows® 10 IoT Enterprise 2019 LTSC Entry
hint	Important Note: It is not allowed to use Windows IoT software as office- or home-system. Please check the microsoft license terms: https://www.microsoft.com/en-us/Use/terms/

Power supply

manufacturer	MeanWell
form factor	outboard
type	table power pack
power	90 Watt
refrigeration	unfavourable
Suitable for	Calmo XS, Tiny Pro, Panel ThinClient
input voltage range	90 - 264V AC V
current draw	1,3 A
efficiency level	VI
output voltage	19 V
output voltage Ampere	4,74 A
polarization	DC
hollow plug Outer diameter	5,5 mm
hollow plug Depth	9,5 mm
plug for external power supply unit	Hollow plug 5,5mm x 2,5mm x 9,5mm
hollow plug inner diameter	2,5 mm
hollow plug Polarity	Plus inside
hollow plug angle	90°
current supply	IEC14 connector (10A)
operating temperature range	-30°C to 70°C
storage temperature range	-40°C to 85°C
operating Humidity	20% to 90% (non-condensing)
humidity (storage)	10% to 95% (non-condensing)
width	60 mm
hight	32 mm
depth	145 mm
heart rate	47 - 63 Hz
CE	yes



Highlights

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CCC	yes
FCC	yes
cUL	yes
TÜV	TÜV Rheinland
GS	Yes
RoHS	yes
EAC	ja

Mainboard Industry

manufacturer	Kontron®
marking	D3544-S1
form factor	Mini-STX
socket	CPU vibration resistant soldered

CPU onBoard	Intel® Celeron® J4005 Processor (2x 2.00 GHz up to 2.70 GHz with Intel® Burst Frequency Technology, 4M Cache)
chipset	SoC
working memory max.	1x SO-DIMM DDR4 PC2400, max. 16 GB
memory max. size	16 GB
memory Slots	1
memory Technology	DDR4-SDRAM
graphic onBoard	Intel® UHD Graphics 600
max. resolution DisplayPort	4,096 x 2,160 pixels @60Hz (DisplayPort 1.2)

network	
network chipset I	Intel® i210
transmission rate	10/100/1000 Mbps
network chipset II	Realtek RTL8111G
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 671
sound mode	5.1-channel high definition

rear interfaces	
USB 2.0	4
DisplayPort	2
LAN (RJ-45)	2
DC-IN	1
expansion slots	1x PCIe® M.2 SATA (2242/2260/2280), 1x PCIe® M.2 WLAN (2230)



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expansion slots

M.2 Key-B SATA	1
M.2 Key-E WLAN	1

internal interfaces

USB 3.2 Gen1 (5Gbit/s)	1
USB 2.0	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
operating voltage I	8 - 24V DC
24-hour continuous operation	yes
available until	Q4 2021

Main storage

size	4 GB
technology	DDR4 SO-DIMM
form factor	SO-DIMM
speed	2666 MHz

System

WiFi usage

maker	Calmo
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Panel

display type	TFT
backlight	LCD
screen diagonal	15.6" (39.6 cm)
aspect ratio	16:9
light	400 cd/m²
Contrast (static)	700:1
reaction time	16
Viewing angle (h/v)	178°/178°
Number of colours	16.7 million.
Maximum resolution	1,920 x 1,080 pixels (FHD)

Touch

touch technology	Projected capacitive touch (P-cap)
pane	antireflective glass (non glare)

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usability	Multi-Touch (10 fingers)
Usability with glove	Latex glove Work glove ESD-glove
Processor	
maker	Intel®
label	Celeron
bloke	J4005
plinth	CPU vibration resistant soldered
Number of cores	2
Number of threads	2
clock	2,00 GHz
max. clock frequency with Intel® burst frequency technology	2,70 GHz
L3 Cache	4 MB
bit set	64
max. TDP	10
processor graphic	Intel® UHD Graphics 600
Operating system	
installed operating system	Windows® 10 IoT Enterprise 2019 LTSC
Main storage	
quantum	1 x
greatness	4 GB
technology	DDR4 SO-DIMM
form factor	SO-DIMM
memory speed	2400 MHz
Hard disk	
installed hard disk	120 GB SSD 2.5" SATA3 with 6 GB/s
Mainboard	
mainboard	Powered by Kontron® - Made in Germany
maker	Kontron®
label	D3544-S1
form factor	Mini-STX
plinth	CPU vibration resistant soldered
chipset	Intel
Memory max. size	16 GB
Memory Slots	1
main memory technology	DDR4 SO-DIMM
form factor	SO-DIMM
Graphic onBoard	Intel® UHD Graphics 600

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Audio	
Audio Chipset	Realtek ALC 671
sound mode	5.1-channel high definition
Rear interfaces	
USB2.0	4
DisplayPort	2
LAN (RJ-45)	2
DC in	1
Internal interfaces	
RS-232	2
Trusted Platform Module (TPM)	yes
SATA3 (6Gb/s)	2
Communicating	
Network Chipset	Intel® i210
transmission rate	10/100/1000 Mbps
Network Chipset 2	Realtek RTL8111G
transmission rate	10/100/1000 Mbps
Wake on LAN (WOL) support	yes
PXE support	yes
Auto-Power-On function	yes
watchdog	yes
Expansion slots	
expansion slots	1x PCIe® M.2 SATA (2242/2260/2280), 1x PCIe® M.2 WLAN (2230)
Expansion slots	
PCIe M.2 SATA (2242/2260)	1
PCIe M.2 WLAN (2230)	1
advice	optional WLAN-Module
Power supply	
Power supply (external)	Wide range input via Phoenix connector 8-24V
voltage input range	8 - 24V DC
Voltage from	8
Voltage up to	24
polarization	DC
Devices Power supply	
wide range input	8 - 24V DC

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advice	8 - 24V DC-in
Surrounding area	
operating temperature range	5°C to 50°C
Operating Relative Humidity	0% to 90% (non-condensing)
IP protection class (front side)	IP 65
IP Protection class (rear)	IP 50
Shell	
amplitude	396 mm
elevation	244 mm
deep	59 mm
ventilation	fanless
installation option	Wall mounting mounting via VESA 100 possible. Foot not included.
stock	Plastic / Metal
tint	black
heaviness	3,5 kg
loudness	0 dB(A)
Certifications	
CE	yes
24/7 continuous operation	yes
grade	EXTRA Computer has a quality management system which is certified according to DIN ISO 9001
Image stability	
Available until	2025
Service	
guarantee	2 years Bring-In Extension on request