

Article-No.: 122596

Calmo Panel-PC 15,6" VESA
i5-9500, 8GB RAM, 120GB SSD, WLAN

Technical data

Service

Service	2 years Bring-In Extension on request
---------	--

Plug-in card communication

WiFi usage

Note for wifi usage	The range from 5150 MHz to 5350 MHz of the 5 GHz WLAN band is for indoor use only.
manufacturer	Intel®
interface	M.2
WLAN chipset	Intel® Dual Band Wireless AX200 Wi-Fi 6
WLAN transmission standard	IEEE 802.11 ax/ac/a/b/g/n
WLAN transmission speed	10.000 MBit
WLAN antenna connections	2
WLAN Antenna connection type	MHF IV
bluetooth chipset	Intel®
bluetooth class	5.0
operating temperature range	-40°C to 85°C
relative humidity (operating)	95% (non-condensing)

Mainboard Accessories

Slot bracket extension

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

Mainboard Desktop

manufacturer	Kontron®
marking	D3674-B
form factor	Thin Mini-ITX
socket	LGA1151
chipset	Intel® H310
hint	supports 8th and 9th generaion CPUs
working memory max.	32 GB
memory slots	2
memory technology	DDR4L-SDRAM
graphic onboard	Intel® HD Graphics, DirectX12 support (with appropriate CPU)
max. resolution	4,096 x 2,160 pixels @30Hz / 2,560 x 1,600 pixels



Highlights

Article-No.: 122596

Calmo Panel-PC 15,6" VESA

i5-9500, 8GB RAM, 120GB SSD, WLAN

HDMI	@60Hz (HDMI 1.4)
max. resolution DisplayPort	4,096 x 2,304 pixels @60Hz (DisplayPort 1.2)
graphic note	Intel® H310 chipset supports only the simultaneous operation of max. 2 monitors
network	
network chipset	Realtek RTL8111E
transmission rate	10/100/1000 Mbps
PXE support	yes
Wake on LAN (WOL) support	yes
audio	
audio chipset	Realtek ALC 255
sound mode	5.1-channel high definition
rear interfaces	
USB 3.2 Gen1 (5Gbit/s)	2
USB 2.0	2
PS/2	1
HDMI	1
DisplayPort	1
Note monitor interfaces	HDMI 1.4 DisplayPort 1.2
LAN (RJ-45)	1
audio	line-in, line-out
DC in	1
hint	Wide range input 19-24V DC-In
M.2 for SSD	1
hint	for M.2 SSD (2280 SATA/PCIe® x4, AHCI/NVMe®)
M.2 for WLAN	1
hint	for WLAN module
USB 3.2 Gen1 (5Gb/s) header	1
USB 2.0 header	2
hint	1x USB Header provides 2x USB Channel
serial	1
hint	RS-232 only internal, not accessible from outside
Trusted Platform Module (TPM) Header	yes
Trusted Platform Module (TPM)	Intel® TPM V2.0
SATA3 (6 Gb/s)	2
other	
24-hour continuous	yes



Article-No.: 122596

Calmo Panel-PC 15,6" VESA

i5-9500, 8GB RAM, 120GB SSD, WLAN

operation	
available until	Q1 2022
particularity	Recovery BIOS, System/BIOS Password, Boot Sequence Control, Serial/ Parallel/ USB-Port Access, Boot Sector Virus Warning, Write Protection for Flash BIOS, Erase Disk (BIOS Feature, license required!); Intel integrated TPM V2.0, optional Infineon TPM Module (TCG compliant, socket prepared)

Processor

manufacturer	Intel®
marking	Core™ i5
type	9500T
cpu socket	LGA1151
cores	6
threads	6
clock rate	2,20 GHz
max. clock frequency with Intel® Turbo Boost technology	3,70 GHz
smartCache	9 MB
bit set	64 bit
max. TDP	35 Watt
processor graphic	Intel® UHD Graphics 630
Intel® Hyper-Threading Technology	no
Intel® Virtualization Technology (VT-x)	yes
ECC memory support	no

Power supply

manufacturer	FSP Group
form factor	outboard
type	outboard
Suitable for	Panel I-Core
input voltage range	90 - 264V AC V
efficiency level	VI
output voltage	19 V
output voltage Ampere	6,32 A
polarization	DC
hollow plug Outer diameter	7,4 mm
hollow plug Depth	12 mm
hollow plug inner diameter	5 mm
hollow plug Polarity	Plus inside
width	75 mm

Article-No.: 122596

Calmo Panel-PC 15,6" VESA

i5-9500, 8GB RAM, 120GB SSD, WLAN

hight	25 mm
depth	150 mm
heart rate	47 - 63 Hz
CE	yes
CCC	yes
UL	yes
TÜV	TÜV Rheinland
GS	Yes
RoHS	yes
WEEE	ja
Hard disk	
memory capacity	128 GB
type	SSD
frame size	2,5"
interface	SATA3 with 6 Gb/s
24-hour continuous operation	yes
System	
WiFi usage	
Note for wifi usage	The range from 5150 MHz to 5350 MHz of the 5 GHz WLAN band is for indoor use only.
maker	Calmo
Panel	
display type	TFT
backlight	LED
screen diagonal	15.6" (39.6 cm)
aspect ratio	16:9
light	400 cd/m²
Contrast (static)	700:1
reaction time	8
Viewing angle (h/v)	160°/140°
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)
usability	Multi-Touch (10 fingers)
Usability with glove	Latex glove Work glove ESD-glove
Processor	
maker	Intel®

Article-No.: 122596

Calmo Panel-PC 15,6" VESA

i5-9500, 8GB RAM, 120GB SSD, WLAN

label	Core™ i5
bloke	9500
plinth	LGA1151
Number of cores	6
Number of threads	6
clock	3,00 GHz
max. clock frequency with Intel® Turbo Boost technology	4,40 GHz
L3 Cache	9 MB
bit set	64
max. TDP	35
processor graphic	Intel® UHD Graphics 630
Operating system	
installed operating system	no operating system included
Main storage	
quantum	1 x
greatness	8 GB
technology	DDR4L-SDRAM
form factor	SO-DIMM
memory speed	2666 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	D3674-B
form factor	Thin Mini-ITX
plinth	LGA1151
chipset	Intel® H310
Memory max. size	32 GB
Memory Slots	2
main memory technology	DDR4-SDRAM
form factor	SO-DIMM
Graphic onBoard	Intel® HD Graphics (with corresponding CPU)
Audio	
Audio Chipset	Realtek ALC 255
sound mode	5.1-channel high definition
Rear interfaces	
USB3.0	2

Article-No.: 122596

Calmo Panel-PC 15,6" VESA

i5-9500, 8GB RAM, 120GB SSD, WLAN

USB2.0	2
PS/2	1
HDMI	1
DisplayPort	1
LAN (RJ-45)	1
line-in	1
line out	1
DC in	1
WLAN antenna connections	2
Internal interfaces	
Internal interfaces	2x USB 3.0, 3x USB 2.0, 1x serial, TPM, 2x SATA3 (6Gb/s)
USB 3.0	2
USB 2.0	2
RS-232	1
Trusted Platform Module (TPM)	integrated
SATA3 (6Gb/s)	2
IO extension	
slot bracket extension	1x serial (RS-232)
Communicating	
Network Chipset	Realtek RTL8111E
transmission rate	10/100/1000 Mbps
Wake on LAN (WOL) support	yes
PXE support	yes
Auto-Power-On function	yes
WLAN chipset	Intel® Wi-Fi 6 AX200
WLAN transmission speed	2.400 MBit
WLAN transmission standard	IEEE 802.11 ax/ac/a/b/g/n
Bluetooth	5.2
Expansion slots	
expansion slots	1x M.2 2280 M-key (PCIe® x4), 1x M.2 2230 E-key
Expansion slots	
PCIe M.2 WLAN (2230)	1
advice	occupied by WLAN module
Power supply	
Power supply	120 Watt, external input: 100-240V AC / 50-60Hz

Article-No.: 122596

Calmo Panel-PC 15,6" VESA

i5-9500, 8GB RAM, 120GB SSD, WLAN

(external)	Output: 19V DC / 6,32A
voltage input range	100 - 240V AC
Voltage from	100
Voltage up to	240
polarization	AC
Output voltage Volt	19 V
Output voltage Ampere	6,32 A

Devices Power supply

wide range input	19 - 24V DC
advice	Wide range input usable via DC-In or Phoenix connector

Surrounding area

operating temperature range	0°C to 45°C
IP protection class (front side)	IP 65
IP Protection class (rear)	IP 50

Shell

amplitude	395,60 mm
elevation	243,60 mm
deep	63.33 mm
ventilation	fanless
installation option	Wall mounting mounting via VESA 100 possible. Foot not included.
advice	CPU is heat optimized via BIOS to 35Watt TDP
stock	Plastic / Metal
tint	black
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
------------------	--