

Article-No.: 128213

Calmo Panel-PC 21,5" for in-wall installation with extension

i5-9500, 8GB RAM, 120GB SSD, WLAN, RFID + 2D Barcodescanner

Technical data

processor	Intel® Core™ i5-9500 (6x 3,00 GHz up to 4,40 GHz with Intel® Turbo-Boost-technology, UHD 630, 9M Cache)
Service	2 years Bring-In Extension on request
hard disk	120 GB SSD 2.5" SATA3 with 6 Gb/s
installed memory	8 GB DDR4
Note for wifi usage	The range from 5150 MHz to 5350 MHz of the 5 GHz WLAN band is for indoor use only.
slot bracket extension	1x serial (slot bracket with 9pin serial plug)
interface	internal 2mm COM
power supply	120 Watt, external
hint	Windows 7/8 drivers are no longer provided for Intel® Coffee Lake processors
current supply	IEC6 three-pin connector
mainboard	Powered by Kontron® - Made in Germany
chipset	Intel® H310
hint	supports 8th and 9th generation CPUs
working memory max.	2x SO-DIMM DDR4 PC2400/2666, max. 32 GB (supports dual channel memory architecture)
graphic onboard	Intel® HD Graphics, DirectX12 support (with appropriate CPU)
max. resolution HDMI	4,096 x 2,160 pixels @30Hz / 2,560 x 1,600 pixels @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	Realtek RTL8111E, 10/100/1000 MBit/s
PXE support	yes
Wake on LAN (WOL) support	yes
audio	Realtek ALC 255 5.1-Channel High Definition Audio
rear interfaces	2x USB 3.2 Gen1 (5Gbit/s), 2x USB 2.0, 1x PS/2 for keyboard/mouse, HDMI, DisplayPort, LAN, Audio, DC-In
Note monitor interfaces	HDMI 1.4 DisplayPort 1.2
expansion slots	1x PCIe® M.2-SATA (2280), 1x PCIe® M.2-WLAN (2230)
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
internal interfaces	1x USB 3.2 Gen1 (5Gbit/s), 2x USB 2.0, serial, TPM, 2x SATA3 (6Gb/s)
hint	RS-232 only internal, not accessible from outside



Highlights

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Trusted Platform Module (TPM) Header	yes
Trusted Platform Module (TPM)	Intel® TPM V2.0
24-hour continuous operation	yes
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
screen diagonal	21.5" (54.61 cm)
Maximum resolution	1,920 x 1,080 pixels (FHD)
touch technology	Projected capacitive touch (P-cap)
pane	antireflective glass (non glare)
usability	Multi-Touch (10 fingers)
processor	Intel® Core™ i5-9500 (6x 3,00 GHz up to 4,40 GHz with Intel® Turbo-Boost-technology, UHD 630, 9M Cache)
installed operating system	no operating system included
installed memory	8 GB DDR4 SO-DIMM
installed hard disk	120 GB SSD 2.5" SATA3 with 6 GB/s
mainboard	Powered by Kontron® - Made in Germany
Working memory max.	New List Value
audio	Realtek ALC 255 High Definition Audio
Rear interfaces	2x USB 3.2 Gen1, 2x USB 2.0, 1x HDMI 1.4, 1x DisplayPort 1.2, 1x PS/2, 1x LAN, Audio, Serielle, DC-In
slot bracket extension	1x serial (RS-232)
WLAN chipset	Intel® Wi-Fi 6 AX200
Bluetooth	5.2
expansion slots	1x M.2 2280 M-key (PCIe® x4), 1x M.2 2230 E-key
Power supply (external)	120 Watt, external Input: 100-240V AC / 50-60Hz / 1,8A Output: 19V DC / 6,32A
wide range input	19 - 24V DC
advice	Wide range input usable via DC-In or Phoenix connector
operating temperature range	0°C to 45°C
IP protection class (front side)	IP 65
IP Protection class (rear)	IP 40
Dimensions (WxHxD)	562,72 x 410,86 x 68,50 mm
ventilation	fanless
installation option	Panel mounting, mounting via VESA 100 x100 possible, mounting material included in delivery
advice	Extension with multi RFID reader (Legic, Mifare, NFC, Hitag) and 2D barcode scanner (up to 90 cm)



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24/7 continuous operation	yes
grade	EXTRA Computer has a quality management system which is certified according to DIN ISO 9001
Available until	2024
guarantee	2 years Bring-In Extension on request