

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

<b>processor</b>	Intel® Core™ i5-9500 (6x 3,00 GHz up to 4,40 GHz with Intel® Turbo-Boost-technology, UHD 630, 9M Cache)
<b>Service</b>	2 years Bring-In Extension on request
<b>hard disk</b>	120 GB SSD 2.5" SATA3 with 6 Gb/s
<b>installed memory</b>	8 GB DDR4
<b>Note for wifi usage</b>	The range from 5150 MHz to 5350 MHz of the 5 GHz WLAN band is for indoor use only.
<b>slot bracket extension</b>	1x serial (slot bracket with 9pin serial plug)
<b>interface</b>	internal 2mm COM
<b>power supply</b>	120 Watt, external
<b>hint</b>	Windows 7/8 drivers are no longer provided for Intel® Coffee Lake processors
<b>current supply</b>	IEC6 three-pin connector
<b>mainboard</b>	Powered by Kontron® - Made in Germany
<b>chipset</b>	Intel® H310
<b>hint</b>	supports 8th and 9th generaion CPUs
<b>working memory max.</b>	2x SO-DIMM DDR4 PC2400/2666, max. 32 GB (supports dual channel memory architecture)
<b>graphic onboard</b>	Intel® HD Graphics, DirectX12 support (with appropriate CPU)
<b>max. resolution HDMI</b>	4,096 x 2,160 pixels @30Hz / 2,560 x 1,600 pixels @60Hz (HDMI 1.4)
<b>max. resolution DisplayPort</b>	4,096 x 2,304 pixels @60Hz (DisplayPort 1.2)
<b>graphic note</b>	Intel® H310 chipset supports only the simultaneous operation of max. 2 monitors
<b>network</b>	Realtek RTL8111E, 10/100/1000 MBit/s
<b>PXE support</b>	yes
<b>Wake on LAN (WOL) support</b>	yes
<b>audio</b>	Realtek ALC 255 5.1-Channel High Definition Audio
<b>rear interfaces</b>	2x USB 3.2 Gen1 (5Gbit/s), 2x USB 2.0, 1x PS/2 for keyboard/mouse, HDMI, DisplayPort, LAN, Audio, DC-In
<b>Note monitor interfaces</b>	HDMI 1.4 DisplayPort 1.2
<b>expansion slots</b>	1x PCIe® M.2-SATA (2280), 1x PCIe® M.2-WLAN (2230)
<b>M.2 for SSD</b>	1
<b>hint</b>	for M.2 SSD (2280 SATA/PCIe® x4, AHCI/NVMe®)
<b>M.2 for WLAN</b>	1
<b>hint</b>	for WLAN module
<b>internal interfaces</b>	1x USB 3.2 Gen1 (5Gbit/s), 2x USB 2.0, serial, TPM, 2x SATA3 (6Gb/s)
<b>hint</b>	RS-232 only internal, not accessible from outside



### Highlights

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<b>Trusted Platform Module (TPM) Header</b>	yes
<b>Trusted Platform Module (TPM)</b>	Intel® TPM V2.0
<b>24-hour continuous operation</b>	yes
<b>Note for wifi usage</b>	The range from 5150 MHz to 5350 MHz of the 5 GHz WLAN band is for indoor use only.
<b>maker</b>	Calmo
<b>screen diagonal</b>	21.5" (54.61 cm)
<b>Maximum resolution</b>	1,920 x 1,080 pixels (FHD)
<b>touch technology</b>	Projected capacitive touch (P-cap)
<b>pane</b>	antireflective glass (non glare)
<b>usability</b>	Multi-Touch (10 fingers)
<b>processor</b>	Intel® Core™ i5-9500 (6x 3,00 GHz up to 4,40 GHz with Intel® Turbo-Boost-technology, UHD 630, 9M Cache)
<b>installed operating system</b>	no operating system included
<b>installed memory</b>	8 GB DDR4 SO-DIMM
<b>installed hard disk</b>	120 GB SSD 2.5" SATA3 with 6 GB/s
<b>mainboard</b>	Powered by Kontron® - Made in Germany
<b>Working memory max.</b>	New List Value
<b>audio</b>	Realtek ALC 255 High Definition Audio
<b>Rear interfaces</b>	2x USB 3.2 Gen1, 2x USB 2.0, 1x HDMI 1.4, 1x DisplayPort 1.2, 1x PS/2, 1x LAN, Audio, Seriell, DC-In
<b>slot bracket extension</b>	1x serial (RS-232)
<b>WLAN chipset</b>	Intel® Wi-Fi 6 AX200
<b>Bluetooth</b>	5.2
<b>expansion slots</b>	1x M.2 2280 M-key (PCIe® x4), 1x M.2 2230 E-key
<b>Power supply (external)</b>	120 Watt, external Input: 100-240V AC / 50-60Hz / 1,8A Output: 19V DC / 6,32A
<b>wide range input</b>	19 - 24V DC
<b>advice</b>	Wide range input usable via DC-In or Phoenix connector
<b>operating temperature range</b>	0°C to 45°C
<b>IP protection class (front side)</b>	IP 65
<b>IP Protection class (rear)</b>	IP 40
<b>Dimensions (WxHxD)</b>	562,72 x 410,86 x 68,50 mm
<b>ventilation</b>	fanless
<b>installation option</b>	Panel mounting, mounting via VESA 100 x100 possible, mounting material included in delivery
<b>advice</b>	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