

**Data sheet**

cloudPanel TP104-CL (H41-L1A41-0)

**Technical data**

<b>Order no.</b>	<b>H41-L1A41-0</b>
Type	cloudPanel TP104-CL
<b>General informationen</b>	
Note	-
Features	Display: 4.3" Processor: Cortex-A8   1GHz Work memory [MB]: 512 User memory [GB]: 4 Interface onboard: 1x RS232/422/485   1x USB-A   1x RJ45 (Ethernet) Software: Linux 3.12
<b>Display</b>	
Display size (diagonal)	4.3 "
Display size (width)	95 mm
Display size (height)	54 mm
Resolution	272 x 480 / 480 x 272
Aspect ratio	16:9
Type of display	TFT color (64K colors)
MTBF Backlights (25°C)	20000 h
<b>System properties</b>	
Processor	Cortex-A8 1000 MHz
Operating system	Linux 3.12
User software	Webkit Browser
Work memory	512 MB
User memory	4 GB
Available memory (user data)	700 MB
SD/MMC Slot	-
CF Card Slot Typ II	-
CFast Slot	-
<b>Time</b>	
Real-time clock buffered	yes
Clock buffered period (min.)	2 w
Type of buffering	Goldcap
Load time for 50% buffering period	5 h
Load time for 100% buffering period	10 h
Accuracy (max. deviation per day)	8 s
<b>Operating controls</b>	
Touchscreen	resistive
Touch function	Single Touch
Keyboard	external via USB

Mouse	external via USB
<b>Interfaces</b>	
MPI, PROFIBUS-DP	-
MPI, PROFIBUS-DP connector	-
Serial, COM1	RS232 / RS422 / RS485
COM1 connector	Sub-D, 9-pin, male
Serial, COM2	-
COM2 connector	-
Number of USB-A interfaces	1
USB-A connector	USB-A (host)
Number of USB-B interfaces	-
USB-B connector	-
Number of ethernet interfaces	1
Ethernet	Ethernet 10/100 MBit
Ethernet connector	RJ45
Integrated ethernet switch	-
Video connectors	-
Audio connections	-
<b>Technical data power supply</b>	
Power supply (rated value)	DC 24 V
Power supply (permitted range)	18 - 32 VDC
Reverse polarity protection	yes
Current consumption (no-load operation)	0.1 A
Current consumption (rated value)	0.25 A
Inrush current	38 A
I <sup>2</sup> t	0.33 A <sup>2</sup> s
Power loss	6 W
<b>Status information, alarms, diagnostics</b>	
Supply voltage display	none
<b>Mechanical data</b>	
<b>Housing / Protection class</b>	
Material	PC + ABS
Mounting	mounting clips
Protection class IP front side	IP 66
Protection class IP back side	IP 20
Protection class NEMA front side	Type 2, 4X
Protection class NEMA back side	-
<b>Dimensions</b>	
Front panel	147 mm x 107 mm x 5 mm
Rear panel	133 mm x 93 mm x 29 mm

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**Installation cut-out**

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Width	136 mm
Height	96 mm
Minimum	1.5 mm
Maximum front panel thickness	6 mm
Net weight	291 g
Weight including accessories	422 g
Gross weight	658 g

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**Environmental conditions**

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Operating temperature	0 °C to 50 °C
Storage temperature	-20 °C to 70 °C

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**Certifications**

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UL certification	yes
KC certification	-

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