

**Data sheet**

VIPA Touch Panel TP 610LC+ (62K-NHC0-CB)

## Technical data

<b>Order no.</b>	<b>62K-NHC0-CB</b>
Type	VIPA Touch Panel TP 610LC+
<b>General information</b>	
Note	-
Features	Display: 10,4" Processor: Cortex-A8   1000 MHz RAM [MB]: 256 User memory [MB]: 128 External slot: SD Card Onboard Interface: 1x RS232   1x RS232/422/485   1x USB-A   2x RJ45 (Ethernet) Optional Interface: MPI/DP interface (961-0MP0) Software: CE6.0 Professional   Movicon CE Standard
<b>Display</b>	
Display size (diagonal)	10 "
Display size (width)	203 mm
Display size (height)	152 mm
Resolution	768 x 1024 / 1024 x 768
Aspect ratio	4:3
Type of display	TFT color (64K colors)
MTBF Backlights (25°C)	50000 h
<b>System properties</b>	
Processor	Cortex-A8 1000 MHz
Operating system	Windows CE 6.0 Prof.
User software	Movicon 11 CE Standard
Work memory	256 MB
User memory	128 MB
Available memory (user data)	25 MB
SD/MMC Slot	yes
CF Card Slot Typ II	-
CFast Slot	-
<b>Time</b>	
Real-time clock buffered	yes
Clock buffered period (min.)	26 w
Type of buffering	Manganese Rechargeable Lithium Battery
Load time for 50% buffering period	5 h
Load time for 100% buffering period	24 h
Accuracy (max. deviation per day)	2 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	optional

MPI, PROFIBUS-DP connector	-
Serial, COM1	RS232
COM1 connector	Sub-D, 9-pin, male
Serial, COM2	RS232 / RS422 / RS485
COM2 connector	Sub-D, 25-pin, female
Number of USB-A interfaces	1
USB-A connector	USB-A (host)
Number of USB-B interfaces	-
USB-B connector	-
Number of ethernet interfaces	2
Ethernet	Ethernet 10/100 MBit
Ethernet connector	RJ45
Integrated ethernet switch	-
Video connectors	-
Audio connections	-

### Technical data power supply

Power supply (rated value)	DC 24 V
Power supply (permitted range)	DC 20.4...28.8 V
Reverse polarity protection	yes
Current consumption (no-load operation)	0.24 A
Current consumption (rated value)	1.36 A
Inrush current	85 A
$I_{\Delta t}$	0.34 A²s
Power loss	15 W

### Status information, alarms, diagnostics

Supply voltage display	none
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### Mechanical data

#### Housing / Protection type

Material	aluminum, galvanized steel
Mounting	mounting clips
Protect type front side	IP 65
Protect type back side	IP 20

#### Dimensions

Front panel	325 mm x 263 mm x 6 mm
Rear panel	310 mm x 248 mm x 50 mm

#### Installation cut-out

Width	311 mm
Height	249 mm
Minimum	2.5 mm
Maximum front panel thickness	6 mm
Net weight	3350 g
Weight including accessories	-

#### Environmental conditions

Operating temperature	0 °C to 50 °C
Storage temperature	-20 °C to 60 °C

**Certifications**

UL certification	yes
KC certification	-