

# Touch Industrial PC Front Panel 12.1

## Datasheet

- Panel
- System
- Interfaces
- Power Supply
- Mechanical & Environmental
- Ordering Information



### Panel

LCD Size	12.1 inch (30.7 cm)
Resolution	1280 x 800
Aspect Ratio	16 : 10
Technology	TFT
Colours	16.7 M
Backlight	LED
Backlight Life Time	50,000 h
Luminance*	400 cd/m <sup>2</sup>
Contrast Ratio*	1000 : 1
Viewing Angle* (right/left/up/down)	88°/88°/88°/88°
Touch	Projected Capacitive Touch, Multitouch, Anti-Glare

\*The values are referring to the display only.

### System

CPU	NXP® i.MX 8M Plus QuadCore 1.8 GHz
Graphic	3D: Vivante™ GC7000UL / 2D: Vivante™ GC520L
Memory	1 GB DDR4
Storage	8 GB eMMC FLASH
CMOS Battery	Lithium Battery (CR2450/620 mAh)
RTC	RV-8803-C7 ultra precise ±3 ppm

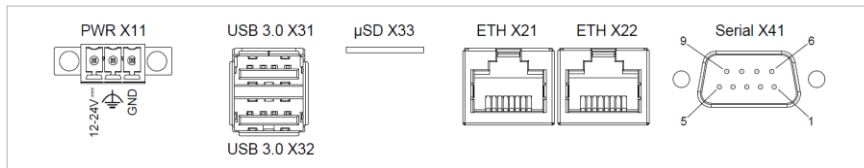
### Interfaces

Power	1 x Phoenix 3-pin MC 1,5/ 3-STF-3,5 BK (screwable), PWR X11
USB	2 x USB Host 3.0 (Type A), X31, X32
Network	2 x 1 Gbit Ethernet (RJ45)
Serial	1 x RS-232 (Sub-D)
MicroSD	1 x MicroSD Slot

# Touch Industrial PC Front Panel 12.1

## Datasheet

### INTERFACES



#### PWR X11

PIN	Signal
1	Ground
2	Functional Earth
3	12 - 24 VDC $\pm$ 20 %

#### Serial X41

PIN	RS-232
1	--
2	RX
3	TX
4	--
5	Ground
6	--
7	--
8	--
9	--

### Power Supply

Supply Voltage	12 - 24 VDC $\pm$ 20 %
Power Consumption (max*)	up to 25 W
Power Button	No
Power Connector	Phoenix 3-pin MC 1,5/ 3-STF-3,5 BK (screwable), PWR X11
Fuse	5 A, very fast-acting, non-exchangeable, Type: Littelfuse 0451 005.

\*max. periphery consumption included (e.g. 1 x USB 2.0 equals 2.5 W)

# Touch Industrial PC Front Panel 12.1

## Datasheet

### Mechanical & Environmental

<b>Housing Front</b>	Glass, Black Frame
<b>Housing</b>	Aluminium / Silver
<b>Dimensions</b>	322 x 222 x 59 [mm]
<b>Cutout</b>	310 x 211 [mm] rounded corners with radius 10 mm, see technical drawing
<b>Weight</b>	max. 2.7 kg
<b>Cooling</b>	Passive
<b>Ambient Temperature</b>	0 ~ 50 °C
<b>Storage Temperature</b>	-10 ~ 70 °C
<b>Humidity</b>	5 ~ 80 % (non condensing)
<b>Protection Class</b>	IP65 (IP20 rear)
<b>Certification</b>	CE, EN55032 Class A, EN55035

Never cover the Touch Industrial PC Front Panel 12.1 completely on the back or build it in a small closed and unvented housing.

Detailed size information can be found in the technical drawing under the following link:

[Technical drawing Front Panel 12.1"](#)

# Touch Industrial PC Front Panel 12.1

## Datasheet

### Ordering Information

Ordering-No.	
PA10009665	Touch Industrial PC Front Panel 12.1

Datasheet valid from device revision 0

### Disclaimer

Christ Electronic Systems GmbH reserves the right to change the information, designs and technical data contained in this documentation without prior notice, as the products are subject to constant further development. No guarantee is given that the data is complete, up-to-date and correct. In this document, all brand names as well as software and hardware designations used are subject to the respective companies, general trademark, brand or patent protection.

### Contact

Christ Electronic Systems GmbH  
Alpenstraße 34  
87700 Memmingen

Phone:  
+49 8331 8371-0 (Main Office)  
+49 8331 8371-500 (Service)

Mail:  
info@christ-es.de

Homepage:  
<https://www.christ-es.com>

© Christ Electronic Systems GmbH