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# Datasheet

## Distec

**IoT-CP-AM-1280800P2TZQW-00H-00**

7.0" IoT Compact Panel with PCAP Touchscreen

DI-06-010



Version 1.2

**05.07.2019**

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## 1 Revision History

| Date       | Rev.No. | Description   | Page   |
|------------|---------|---|--------|
| 04.06.2018 | 1.0     | Initial release   | All    |
| 08.03.2019 | 1.1     | Coverpage added, Links updated  | All    |
| 05.07.2019 | 1.2     | Corrected brightness from 500 to 400 cd/m <sup>2</sup><br>Updated last page | 5<br>9 |
|            |         |   |        |
|            |         |   |        |
|            |         |   |        |
|            |         |   |        |
|            |         |   |        |

## 2 Description

Distec's IoT Compact Panel is an open frame design TFT display solution, featuring the Raspberry Pi based TFT controller Artista-IoT. Therefore it is the perfect platform for Industry 4.0 and Internet of Things projects. Its modular based construction allows an easy integration into customer's applications.

Artista-IoT offers all advantages of a modern ARM processor platform: driven by single 12V power supply and offering LAN, HDMI-IN, 2xUSB, Line Out and microSD as front interfaces. Furthermore it offers USB, LVDS, I<sup>2</sup>C, UART and an internal power connector for i.e. DC/DC converters inside the housing. Wireless LAN or Bluetooth adapters can be connected as well via USB. As optional devices IR remote, OSD keypad and light sensor are available.

Users are able to program their own applications on a Raspberry Pi basis, supported by the large community. Standard applications such as VideoPoster are also available as an option. Moreover all operating systems supported by the Raspberry Pi community can be used as well.

Our 7.0" IoT-CP-AM-1280800P2TZQW-00H-00 IoT Compact Panel with an industrial high quality display is designed for long term availability. It features an integrated 10 finger PCAP touchscreen. The integrated passive cooling allows for operating the system under full load even at high ambient temperatures.

IoT-CP-AM-1280800P2TZQW-00H-00's versatility allows for usage in various applications such as gaming, amusement, industry and stand-alone GUI (Graphic User Interface).

## 3 Characteristics

| Items                        | Unit                 | Specification  |
|------------------------------|----------------------|--|
| Type                         | Ampire LCD TFT       | AM-1280800P2TZQW-00H   |
| Screen Diagonal              | [inch]               | 7,0  |
| Physical Size H x V x D      | [mm]                 | 187,6 x 120,3 x 43,6   |
| Active Area H x V            | [mm]                 | 149,8 x 93,6   |
| Pixels H x V                 |                      | 1280(RGB) x 800 WXGA   |
| Supported Colors             |                      | 262k/16.7M   |
| Brightness                   | [cd/m <sup>2</sup> ] | 400  |
| Viewing Angle                | v/h                  | 160°/160°  |
| Nominal Input Voltage        | [V]                  | 12 typ.  |
| Typical Power Consumption    | [W]                  | 6,0 typ.   |
| Weight                       | [kg]                 | 0,65   |
| Electrical Interface         |                      | 100Mbit Ethernet, USB, GPIO, I <sup>2</sup> C, UART, HDMI, 12V power, micro SD, Audio Line Out, GPIO |
| PCAP Touchscreen Touchpoints | Pcs.                 | 10   |
| Storage Temperature          | [°C]                 | -30 to +80   |
| Operating Temperature Range  | [°C]                 | -20 to +70   |

### 3.1 Further Specifications

#### 3.1.1 TFT-Display

[AM-1280800P2TZQW-00H Datasheet](#) 

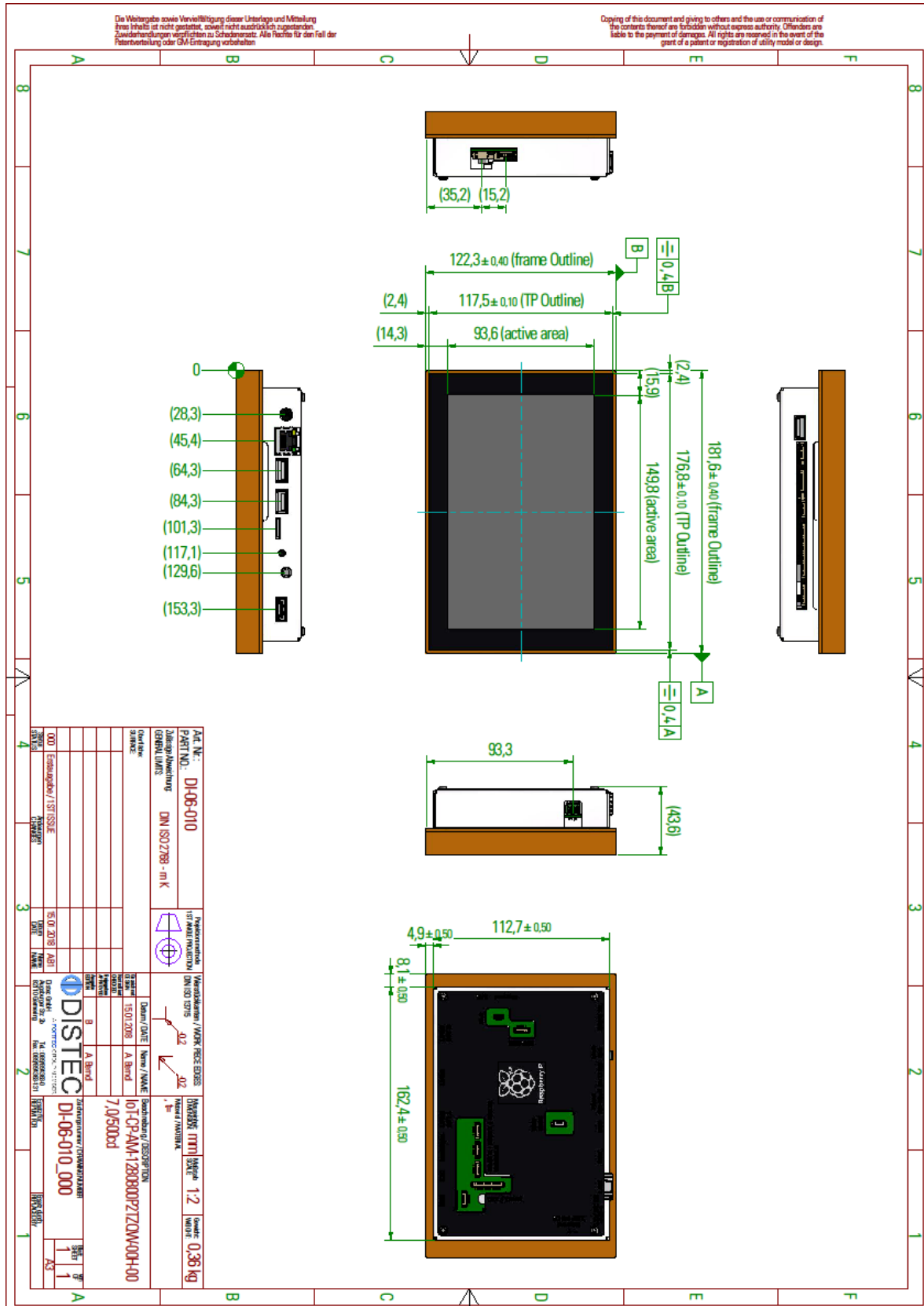
#### 3.1.2 TFT Controller



[Distec Artista-Media III Datasheet](#) 

[Raspberry Pi Compute Module 3 \(CM3\) Datasheet](#) 

## 4 Mechanical drawing



## 5 Optional Accessories

We offer various accessories for the Artista-IoT e.g. cables, sensors, remote control etc. Please refer to the following pdf for the latest accessories overview:

[Artista-IoT Accessories](#) 

## 6 Software for the IoT Compact Panels

There is a wide range of software available for the IoT Compact Panels. Please click on the logos to visit the websites for more information:



### 6.1 Operating systems

#### 6.1.1 Raspbian O/S



Raspbian is a free operating system based on Debian optimized for the Raspberry Pi hardware.

#### 6.1.2 Emteria O/S



Emteria is an O/S based on industrial Android 7.x, providing a simplified development process.

## 6.2 Application Software

### 6.2.1 Info Beamer



Info Beamer is capable of displaying any kind of information since it is fully programmable e.g. for synchronized content and full HD video playback.

### 6.2.2 VideoPoster-IV



VideoPoster is a full HD capable network player. MPEG media files are played from an SD card. Videos are transferred via USB or Ethernet.



Our company network supports you worldwide with offices in Germany, Austria, Switzerland, the UK and the USA. For more information please contact:

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