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# Datasheet

## Distec

### POS-RP-101-00

10,1" POS-RP-101-00 with PCAP Touchscreen

DI-06-901



Version 1.4

14.06.2019

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## 1 Revision History

Date	Rev.No.	Description	Page
09.03.2019	1.0	Initial release	All
15.05.2019	1.1	Product name updated to POSrp-101	2-8
16.05.2019	1.2	Restored field functions, updated subtitle and description to POSrp-070, removed keywords "IoT" and "Compact Panel"	2-8
05.06.2019	1.3	Corrected description	4
14.06.2019	1.4	Changed product name from "POSrp-101" to "POS-RP-101-00"	All

## 2 Description

Distec's POS-RP-101-00 is a plug-and-play 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 10,1" POS-RP-101-00 with an industrial high quality display is designed for long term availability. The integrated capacitive touch screen allows for easy operation with up to 5 fingers and is protected by a 1.1mm chemically hardened front glass with black passepartout. The SFT technology provides a viewing angle of v/h 170°/170° and enables a good readability of the content from all direction. Its front-end IP protection of up to IP65 is ideal for applications in harsh industrial environments. Additionally, the display is offered with a low-weight aluminum housing, giving it an exclusive and modern look.

POS-RP-101-00'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	Tianma LCD TFT	TM101JVHG32-01
Screen Diagonal	[inch]	10,1
Physical Size H x V x D	[mm]	263,7 x 182,3 x 40,8
Active Area H x V	[mm]	218,4 x 137
Pixels H x V		1280(RGB)x800 WXGA
Supported Colors		262k/16.7M
Brightness	[cd/m <sup>2</sup> ]	850
Viewing Angle	v/h	170°/170°
Nominal Input Voltage	[V]	12 typ.
Typical Power Consumption	[W]	12,5 typ.
Weight	[kg]	1,873
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	5
Front Glass Thickness	mm	1.1
Storage Temperature	[°C]	-30 to +80
Operating Temperature Range	[°C]	-20 to +70

#### 3.1 Further Specifications


##### 3.1.1 TFT-Display

[TM101JVHG32-01 Datasheet](#) 

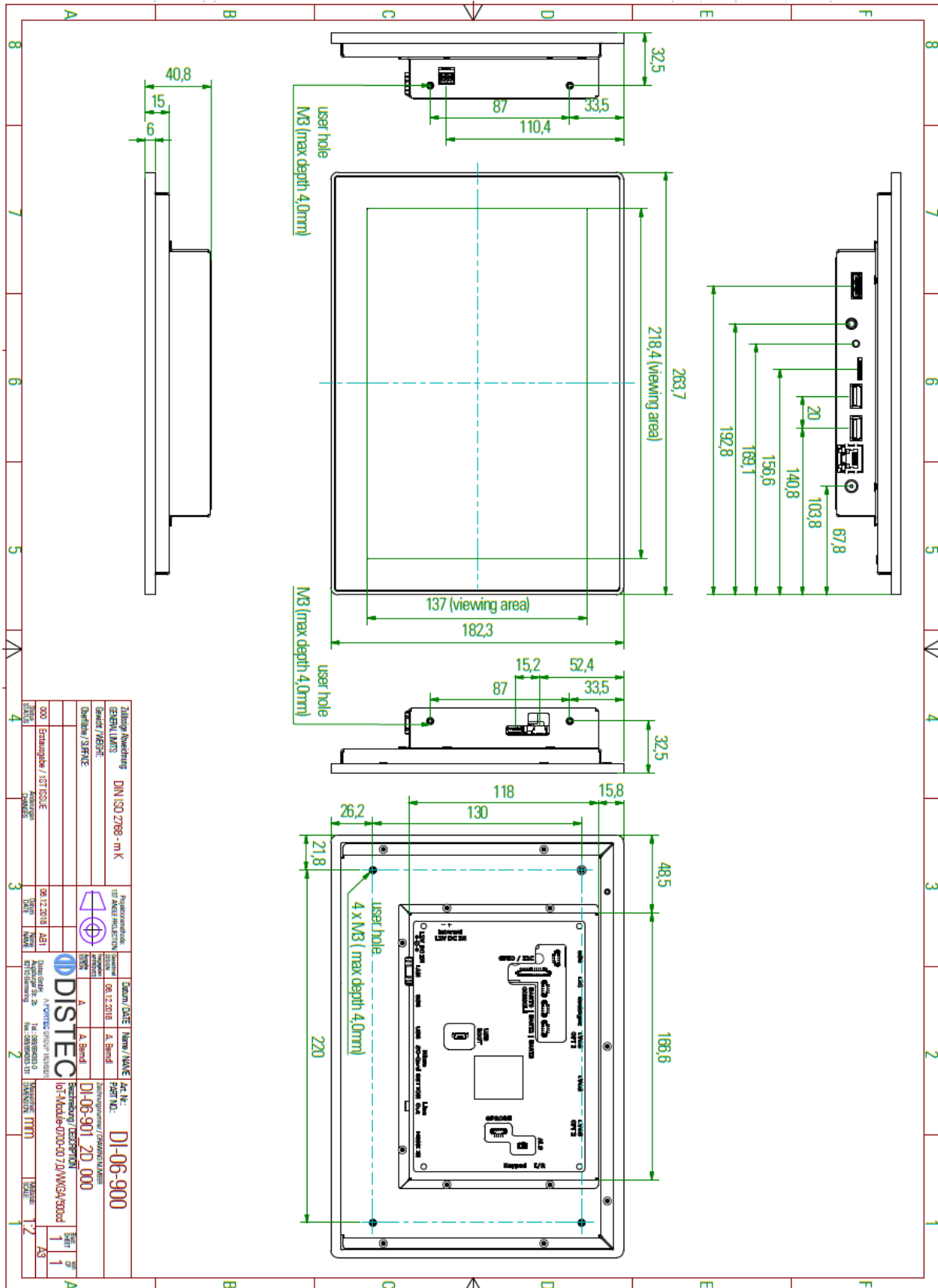
##### 3.1.2 TFT Controller



[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 POS-RP-Series

There is a wide range of software available for the POS-RP-Series. 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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