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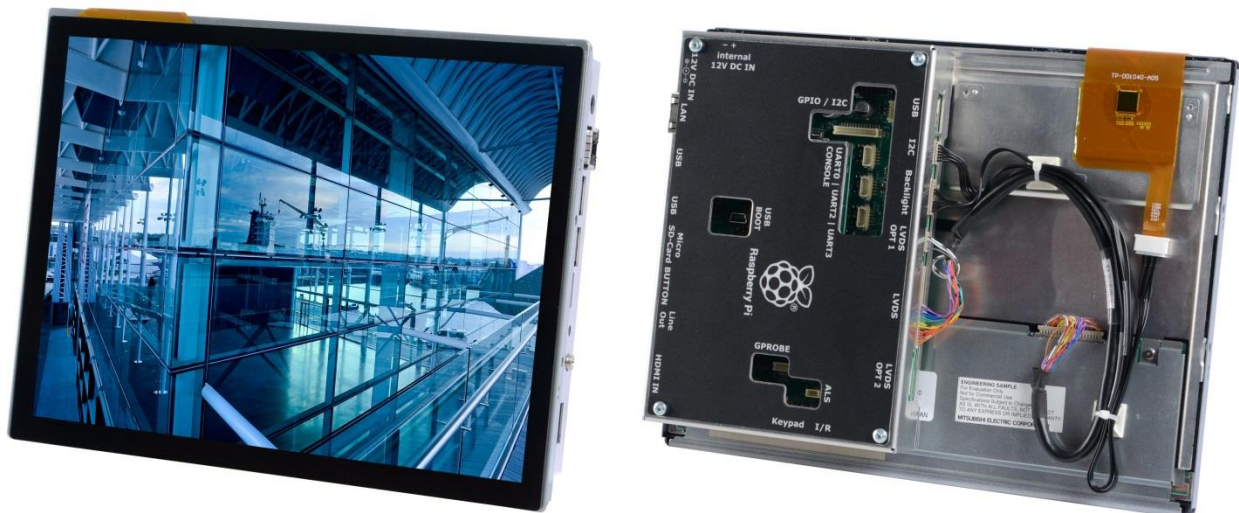
# Datasheet

## Distec

### IoT-CP-AA104XL02-00

10.4" transfective IoT Compact panel with PCAP Touchscreen

DI-06-002



Version 1.2

05.07.2019

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## Table of Contents

1	Revision History .....	4
2	Description .....	4
3	Characteristics .....	5
3.1	Further Specifications .....	5
3.1.1	TFT-Display .....	5
3.1.2	TFT Controller .....	5
4	Mechanical Drawing .....	6
5	Optional Accessories .....	7
6	Software for the IoT Compact Panels .....	7
6.1	Operating systems .....	7
6.1.1	Raspbian O/S .....	7
6.1.2	Emteria O/S .....	7
6.2	Application Software .....	8
6.2.1	Info Beamer .....	8
6.2.2	VideoPoster-IV .....	8

## 1 Revision History

Date	Rev.No.	Description	Page
04.06.2018	1.0	Initial release	All
08.03.2019	1.1	Cover Page added, Links updated	All
05.07.2019	1.2	Corrected brightness from 250 to 220 cd/m <sup>2</sup> Updated last page	5 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 10.4" IoT-CP-AA104XL02-00 IoT Compact Panel with an industrial high quality transfective display is designed for long term availability and perfect sunlight readability. It features an optically bonded 10 finger PCAP touchscreen. The integrated passive cooling allows for operating the system under full load even at high ambient temperatures.

IoT-CP-AA104XL02-00'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	Mitsubishi LCD TFT	IoT-CP-AA104XL02-00
Screen Diagonal	[inch]	10,4
Physical Size H x V x D	[mm]	230 x 180,2 x 40,2
Active Area H x V	[mm]	210,4 x 157,8
Pixels H x V		1024(RGB)x768 XGA
Supported Colors		262k/16.7M
Brightness	[cd/m <sup>2</sup> ]	220
Viewing Angle	v/h	-50/~35°, -50~25°
Nominal Input Voltage	[V]	12 typ.
Typical Power Consumption	[W]	10 typ.
Weight	[kg]	1,8
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]	-25 to +80

#### 3.1 Further Specifications

##### 3.1.1 TFT-Display

[AA104XL02 Datasheet](#) 

##### 3.1.2 TFT Controller




[Distec Artista-Media III Datasheet](#) 

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



## 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:

## Headquarters

### Germany



#### FORTEC Elektronik AG

Augsburger Str. 2b  
82110 Germering

Phone: +49 89 894363-0  
E-Mail: [sales@fortecag.de](mailto:sales@fortecag.de)  
Internet: [www.fortecag.de](http://www.fortecag.de)

## Fortec Group Members

### Austria



#### FORTEC Elektronik AG

##### Office Vienna

Nuschinggasse 12  
1230 Wien

Phone: +43 1 8673492-0  
E-Mail: [office@fortec.at](mailto:office@fortec.at)  
Internet: [www.fortec.at](http://www.fortec.at)

### Germany



#### Distec GmbH

Augsburger Str. 2b  
82110 Germering

Phone: +49 89 894363-0  
E-Mail: [info@distec.de](mailto:info@distec.de)  
Internet: [www.distec.de](http://www.distec.de)



#### FORTEC Elektronik AG

Lechwiesenstraße 9  
86899 Landsberg am Lech

Phone: +49 8191 91172-0  
E-Mail: [sales@fortecag.de](mailto:sales@fortecag.de)  
Internet: [www.fortecag.de](http://www.fortecag.de)

### Switzerland



#### ALTRAC AG

Bahnhofstraße 3  
5436 Würenlos

Phone: +41 44 7446111  
E-Mail: [info@altrac.ch](mailto:info@altrac.ch)  
Internet: [www.altrac.ch](http://www.altrac.ch)

### United Kingdom



#### Display Technology Ltd.

Osprey House, 1 Osprey Court  
Hichingbrooke Business Park  
Huntingdon, Cambridgeshire, PE29 6FN

Phone: +44 1480 411600  
E-Mail: [info@displaytechnology.co.uk](mailto:info@displaytechnology.co.uk)  
Internet: [www.displaytechnology.co.uk](http://www.displaytechnology.co.uk)

### USA



#### Apollo Display Technologies, Corp.

87 Raynor Avenue,  
Unit 1 Ronkonkoma,  
NY 11779

Phone: +1 631 5804360  
E-Mail: [info@apolloDisplays.com](mailto:info@apolloDisplays.com)  
Internet: [www.apolloDisplays.com](http://www.apolloDisplays.com)