

Datasheet

IoT Compact Panel

IoT-CP-P270HVN01.0 27,0/FHD/350cd

DI-06-007

Version 1.0

22.12.2017

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1 Revision History

Date	Rev.No.	Description	Page
22.12.2017	1.0	Initial release	All

2 Description

The Data Display Group's IoT Compact Panel is an open frame design TFT Display solution, featuring our 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, I²C, 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 Ambient Light Sensors are available.

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

Our IoT-CP-P270HVN01.0 27,0/FHD LED Compact Panel with an industrial high quality display is designed for long term availability. Its 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	AUO LCD TFT	P270HVN01.0
Screen Diagonal	[inch]\[mm]	27,0/685,80
Physical Size H x V x D	[mm]	613,6 x 356,9 x 35,0
Active Area H x V	[mm]	597,6 x 336,15
Pixels H x V		1920(RGB) x 1080HD
Supported Colors		16,7M (8bit)
Brightness	[cd/m ²]	350
Viewing Angle	v/h	178°/178°
Nominal Input Voltage	[V]	12 typ.
Typical Power Consumption	[W]	26 typ.
Weight	[kg]	2,7
Electrical Interface		100Mbit Ethernet, USB, GPIO, I ² C, UART, HDMI, 12V power, Micro SD, Audio Line Out, GPIO
Storage Temperature	[°C]	-20 to +60
Operating Temperature Range	[°C]	0 to + 50

3.1 Further Specifications

3.1.1 TFT Controller

Distec Artista Media III [Datasheet Artista-Media III](#)

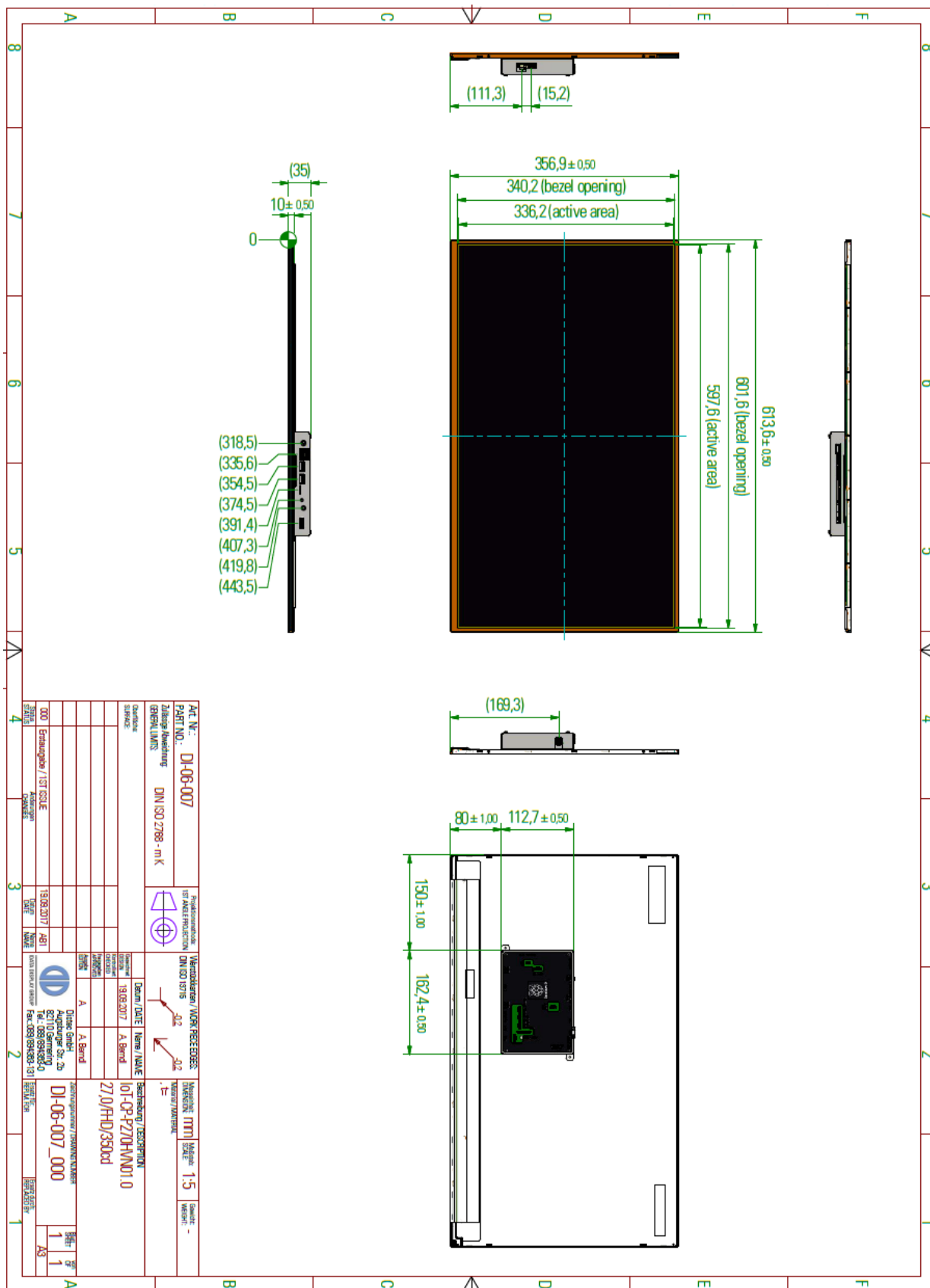
3.1.2 TFT-Display

P270HVN01.0 [Datasheet P270HVN01.0](#)

3.1.3 Raspberry PI Compute module

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

4 Mechanical Drawing



5 Optional Accessories

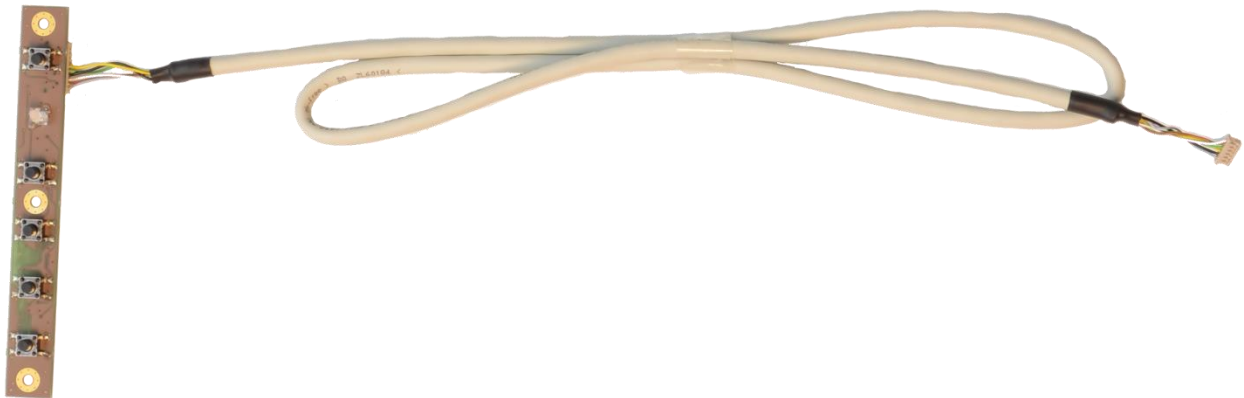
5.1 Light Sensor

ZU-02-412 IF412-00 Light Sensor
KA-30-786 Cable Prisma / IF412 800mm



5.2 4 Button OSD Universal Keypad

ZU-02-398 IF398-00-OSD-Board-Universal 4+1Button
KA-30-613 Cable OSD IF398/PrismaECO-eDP 45cm



External (4+1) Button OSD Keypad

- ZU-02-398 IF398-00-OSD-Board-Universal
- KA-30-394 OSD-Cable IF398

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 Raspbian O/S



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

6.2 Info Beamer



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

6.3 VideoPoster-IV



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

6.4 Emteria



Emteria is an O/S based on industrial Android 7.1, providing a simplified development processes.

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

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