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Datasheet

Distec

POS-RP-121-01-PRO

12.1" Monitor with Artista IoT

MO-06-006

Version 0.1

10.12.2019

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Preliminary

1 Revision History

Date	Rev.No.	Description	Page
10.12.2019	0.1	Preliminary Version	All

Preliminary

2 Description

Distec's 12.1" POS-RP-121-01-PRO is a CE certified monitor 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 robust but slim cover with IP65 proof front offers all options for integration and various applications. The POS-RP-121-01-PRO 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. VESA Mounting holes allow for using it as an HMI mounted on a swivel arm or monitor stand.

An optional in-wall mounting frame offers a variety of integrations in concrete, wooden or drywall constructions.

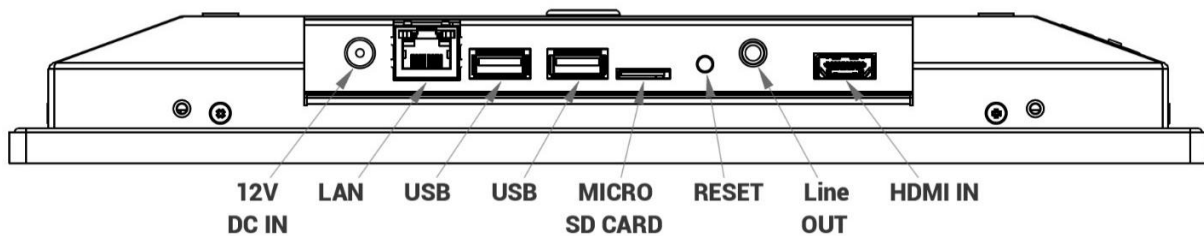
Artista-IoT offers all advantages of a modern ARM processor platform: driven by single 12V power supply and offering LAN, HDMI-IN, 2xUSB as front interfaces. Furthermore Wireless LAN or Bluetooth adapters can be connected as well via USB. An OSD keypad is integrated.

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.

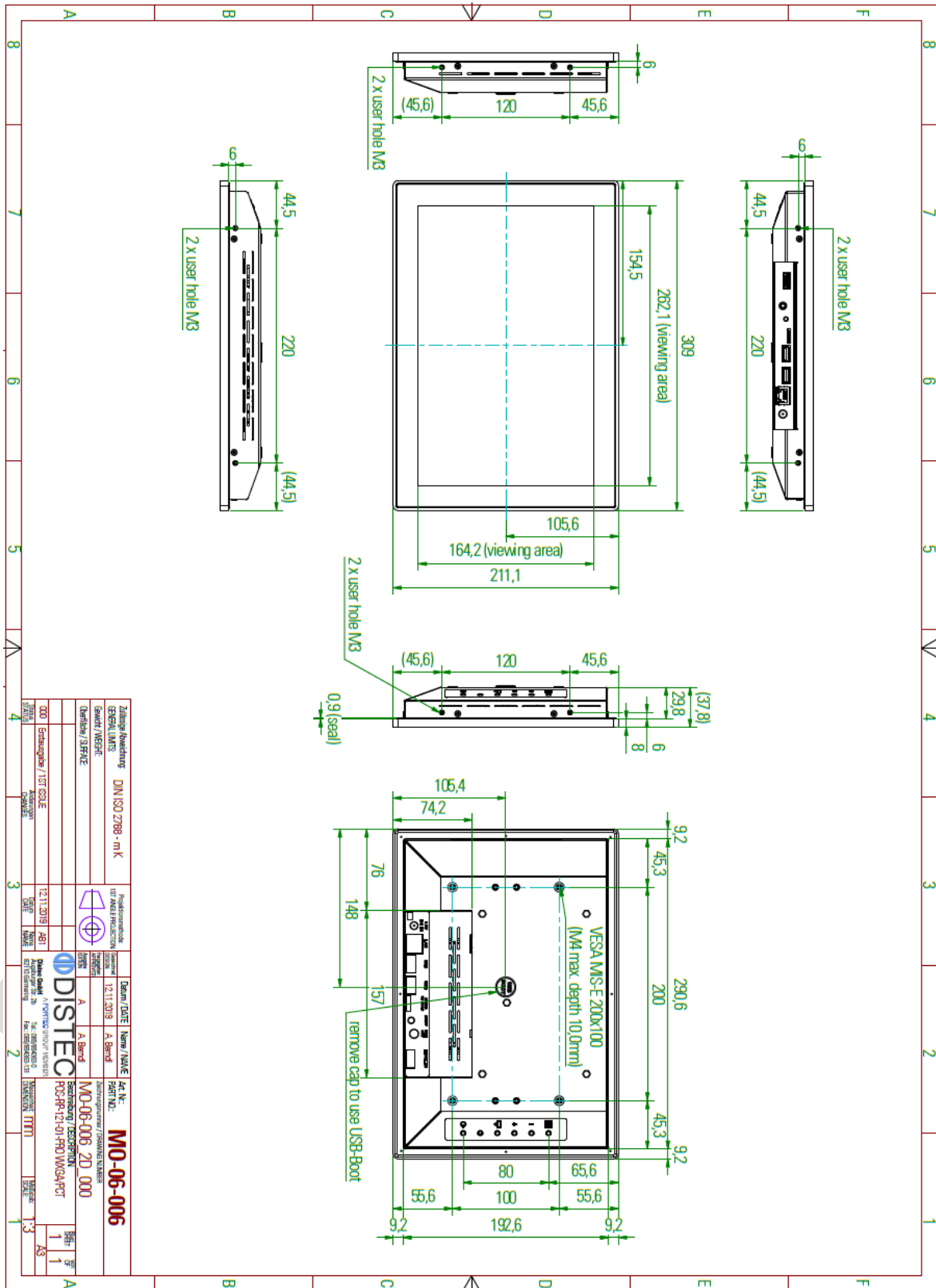
3 Characteristics

Items	Unit	Specification
Type		Mitsubishi
Screen Diagonal	[inch]	12.1
Physical Size H x V x D	[mm]	309 x 211.1 x 37.8
Active Area H x V	[mm]	261.12 x 163.2
Pixels H x V		1280 x 800
Supported Colors		262K(6bit color)/ 16.7M(8bit color)
Brightness	[cd/m ²]	1200
Viewing Angle	v/h	88/88/88/88
Nominal Input Voltage	[V]	12
Typical Power Consumption	[W]	15.1
Weight	[kg]	2.7
Electrical Interface		12V, USB, Audio, SD Card, Ethernet RJ45, HDMI
PCAP Touchscreen Touchpoints	Pcs.	10
Storage Temperature	[°C]	-40 to +80
Operating Temperature Range	[°C]	0 to +50
IP rating		Front IP65

3.1 Interfaces



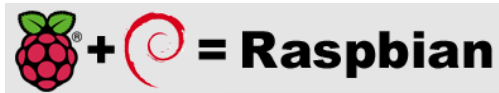
4 Mechanical Drawing



6 Software for the POS-RP-PRO Series

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.

6.1.3 Yocto Linux



The Yocto Project provides tools and processes that enable the creation of Linux distributions for embedded and IoT software.

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.

Preliminary

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