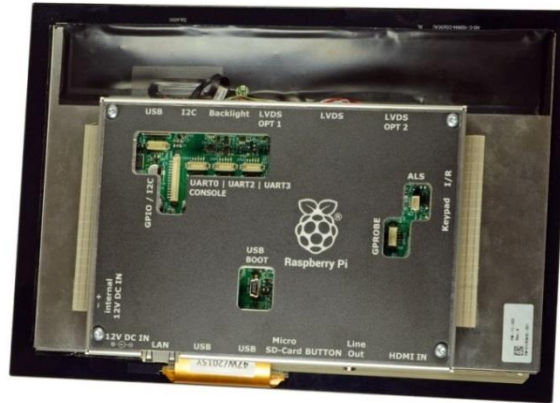


IoT Compact Panel

Ultra flat design and powerful performance for the Internet of Things



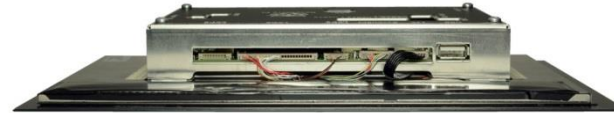
General Information



The IoT Compact Panel features our Raspberry Pi based TFT-Controller Artista-IoT and is therefore the perfect platform for Industry 4.0 and Internet of Things projects.

The flat and modular design of the housing allows an easy mounting on most available TFT displays

- Compact solution for the integration of TFT Panels
- Integrated Raspberry Pi Compute Module CM3
- Supports PCAP touchscreens (USB, I²C)
- Interfaces Front:
 - 12V Power, LAN, HDMI-IN, 2xUSB, Line Out, microSD
- Interfaces internal:
 - USB, LVDS, I²C, UART, internal power connector
 - IR-Remote, OSD keypad, ambient light sensor
- Offers all advantages of an ARM-PC such as:
 - low energy device
 - easy maintenance for IT departments
 - integrated cooling solution
- Standard applications such as Video Poster are available
- Simple programming of own applications (community support)



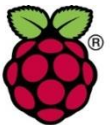
Overview



The IoT Compact Panel family offers a large number of standard display sizes:

Product	Part Number	Size	Resolution		Brightness cd/m ²	Special
IoT-CP-TM070JVHG33-01-00	DI-06-013	7,0"	WXGA	1280x800	500	with PCAP
IoT-CP-AA070MC01ADA11-00	DI-06-009	7,0"	WVGA	800x480	800	with PCAP
IoT-CP-AM-1280800P2TZQW-00H-00	DI-06-010	7,0"	WXGA	1280x800	500	with PCAP
IoT-CP-AM-1280800P3TZQW-10H-00	DI-06-012	7.0"	WXGA	1280x800	1000	Optional: PCAP/Glass
IoT-CP-TM101JDHG30-00-01	DI-06-003	10,1"	WXGA	1280x800	500	Optional: Glass
IoT-CP-TM101JDHG30-00-00	DI-06-000	10,1"	WXGA	1280x800	500	with PCAP, Optional: Glass
IoT-CP-G101EVN01.0-00	DI-06-011	10,1"	WXGA	1280x800	300	with PCAP, Optional: Glass
IoT-CP-AA104XL02-00	DI-06-002	10,4"	XGA	1024x768	250	Transflective; Optional: PCAP/Glass

VACUBOND[®] Optical Bonding available for all displays as an option
Other displays available upon request



Raspberry Pi

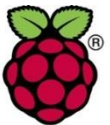
Overview



The IoT Compact Panel family offers a large number of standard display sizes:

Product	Part Number	Size	Resolution		Brightness cd/m ²	Special
IoT-CP-G121X1-L03-00	DI-06-001	12,1"	XGA	1024x768	600	Optional: PCAP / Glass
IoT-CP-G150XNE-L01-00	DI-06-004	15,0"	XGA	1024x768	500	Optional: PCAP / Glass
IoT-CP-G150XTK01.0-00	DI-06-005	15,0"	XGA	1024x768	390	with On-Cell PCAP, optional: Glass
IoT-CP-G215HVN01.0-00	DI-06-006	21,5"	FHD	1920x1080	300	Optional: PCAP / Glass
VP-IV-CP-G215HVN01.0-00 IoT-CP-G215HVN01.0-00 incl. software VideoPoster-IV	DI-06-203	21,5"	FHD	1920x1080	300	Optional: PCAP / Glass
IoT-CP-P270HVN01.0-00	DI-06-007	27,0"	FHD	1920x1080	350	Optional: PCAP / Glass

VACUBOND[®] Optical Bonding available for all displays as an option
Other displays available upon request



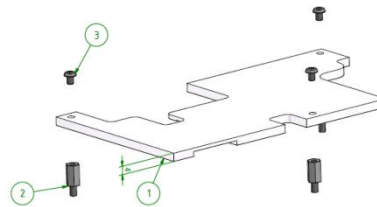
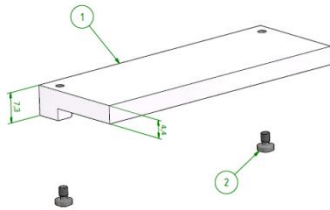
Raspberry Pi



Passive Cooling

A passive cooling solution is standard for all Artista-IoT Compact Panels. Two different versions are available:

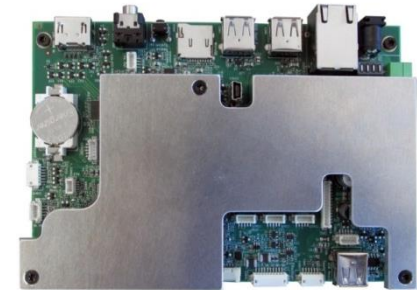
- Passive cooling KI-90-020 mounted under the Box-Set, integrated as standard in all IoT Compact Panels (included in KI-90-017)
- Passive cooling KI-90-019 for solutions without Box-Set
- Passive cooling reduces the CPU temperature by up to 30°C
- Allows 100% CPU performance even at high ambient temperatures up to 80°C ⁽¹⁾
- Thermal compound is used between components to ensure maximum heat transfer (Prolima.PK-1 Nano Alu recommended)



⁽¹⁾ Depending on TFT-panel operating temperature specification



Passive cooling for use with Box-Set



Passive cooling solution without Box-Set



Special Features

- Integrated PCAP Touchscreen with 5 touch points
- Wide temperature range
- High resolution: 1280x800
- SFT wide viewing angle: v/h 170°/170°

Part no. DI-06-008



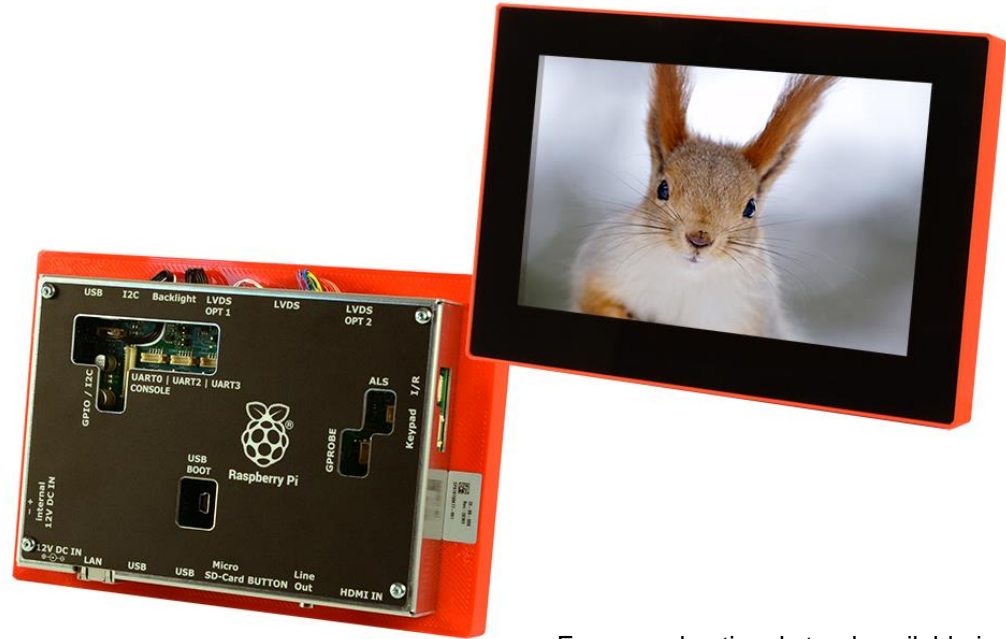
Frame and optional stand available in following colors: blue, yellow, green, magenta, orange, pearl, red, black, silver metallic, transparent, white



Special Features:

- Integrated PCAP Touchscreen with 10 touch points
- Wide temperature range
- Long term availability, minimum. 5 years
- High brightness, 800cd
- IPS wide viewing angle: v/h 170°/170°
- LED backlight MTBF 100,000h

Part no. DI-06-009



Frame and optional stand available in following colors: blue, yellow, green, magenta, orange, pearl, red, black, silver metallic, transparent, white



Special Features:

Part no. DI-06-010

- Integrated PCAP Touchscreen with 10 touch points
- Wide temperature range
- High resolution: 1280x800
- SFT wide viewing angle: v/h 160°/160°



Frame and optional stand available in following colors: blue, yellow, green, magenta, orange, pearl, red, black, silver metallic, transparent, white



Special Features:

Part no. DI-06-003

- Narrow frame design
- Wide temperature range
- SFT wide viewing angle: v/h 170°/170°





Special Features

- Transflective display with perfect sunlight readability and low power consumption
- PCAP Touchscreen with 10 touch points
- Optical Bonding to minimize reflections caused by light refraction
- Wide temperature range

Part no. DI-06-002

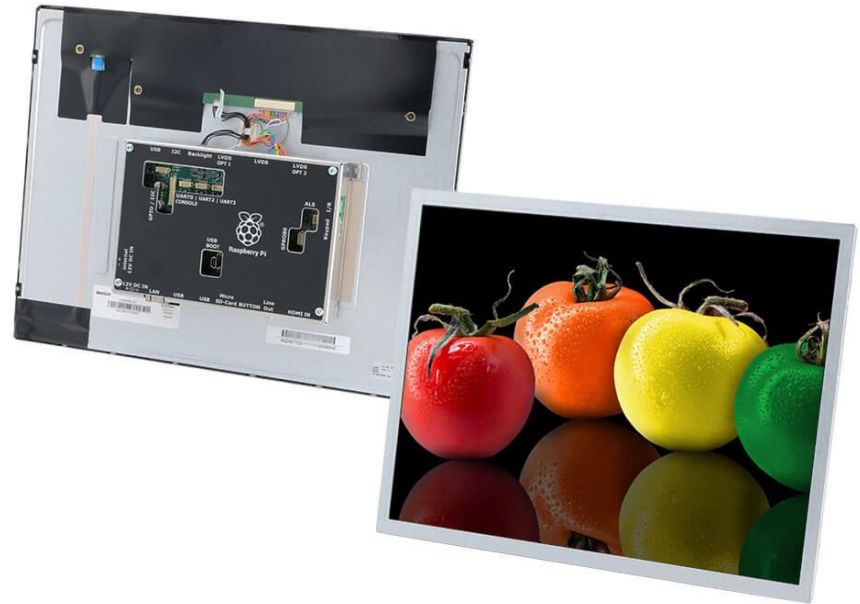




Special Features

Part no. DI-06-004

- Wide temperature range
- NPVA wide viewing angle: v/h 176°/176°





Operating Systems for the IoT Compact Panels

- [Raspbian O/S](#) is a free operating system based on Debian and optimized for the Raspberry Pi Compute Module. This operating system provides all the basic programs that get your Raspberry Pi started and additional precompiled software for easy installation on your Compute module. The large Raspberry Pi developer community provides support via the forum.
- The [Emteria](#) operating system provides industrial Adroid™ for our Artista IoT. Quickly installed and based on AOSP 7.1, it simplifies your development process and is the perfect basis for all types of human-machine interaction. Emteria includes all major enhancements and security updates and is backward compatible.





User Software for the IoT Compact Panels

- The [Info Beamer](#) software was developed specifically for all types of digital signage applications and also supports the Artista IoT with [info-beamer](#) hosted. The software is installed fast and easily, offering a variety of options from synchronized video walls, via conference room management, to electronic public transport timetables.
- Based on our BaseBoard with Raspberry Pi, we developed the network player [VideoPoster-IV](#). It is full HD capable and plays various media files either from the 3GB internal flash memory or from a microSD card. Videos are either transmitted via Ethernet or USB. An FTP connection is also possible.



VIDEOPOSTER

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