Industrial Panel PC based on Raspberry Pi

The Liberalization of the Industry with Open Source Technology
Panel PCs for industrial environment using Linux or Android

This Panel PC is based on GNU/Linux (Raspbian/Ubuntu) OS installed on an SD card. It has many interfaces built in: Ethernet, USB, WiFi...

Using the Ethernet port or WiFi network you can remotely control all parameters, data and inputs/outputs of your control system. Furthermore, Touchberry PI comprises enough I/Os to replace PLCs on simple automation applications. Open protocols not only allow communication with other Industrial Shields PLCs, but also third-party devices and machinery.

In complex systems, you can create a network between several TOUCHBERRY PI. Providing integral supervision and control solution for entire production plants and real-time data at hand.

TFT
10.1” TouchScreen LVDS, 315 nits, 170° viewing angle.
Format 16:9, 1280x720.
Video in
MIPI CSI connector which lets you install an RPF camera module.
Integrated Storage
SD / MMC / SDIO slot.
Power supply
12Vdc to 24Vdc (5.5x2.5 Jack)
Current consumption
2.5A (12Vdc) // 1.25A (24Vdc)
Low level devices
10x GPIOs, SPI, I2C, UART
LAN connectivity
10/100 Ethernet (RJ-45)

CPU
Raspberry Pi
Quad-core A53 (ARMv8) 64-bit @ 1.4GHz

SOFTWARE
Linux
Android
You can choose among these Operating Systems to boot the Panel PC.
Depending on your installation requirements and/or needs you have the flexibility to select the option that fits best with your project.

Choose the processor
That fits your project

Panel PC based on Raspberry Pi, 7” TouchScreen.
From 12 to 24Vdc
5x optoisolated digital outputs (5-24Vdc)
3x optoisolated digital inputs (5-24Vdc)
2x analog inputs (4-20mA)
2x analog/digital inputs (5-24Vdc for digital) (0-10Vdc for analog)
1x Serial TTL-RS232* - 1x RS485 (half-full duplex) - 1x I2C - 1x SPI - RTC (Real Time Clock)
UPS included
<table>
<thead>
<tr>
<th>Reference</th>
<th>Description</th>
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<tbody>
<tr>
<td>003002000100</td>
<td>Touchberry PI 10.1 4B (Panel PC industrial EMC Aluminum - Raspberry PI 4B Included + μSD Card with Raspbian)</td>
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<tr>
<td>003002000200</td>
<td>Touchberry PI 10.1 4B (Panel PC Industrial EMC Aluminum - Raspberry PI 4B Included + 16Gb μSD Card without OS)</td>
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<td>003002000300</td>
<td>Touchberry PI 10.1 4B (Panel PC Industrial EMC Aluminum - Raspberry PI 4B Included)</td>
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<td>003002000400</td>
<td>Touchberry PI 10.1 4B UPS (Panel PC Industrial EMC Aluminum - Raspberry PI 4 B Included + μSD Card with Raspbian - UPS included)</td>
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<tr>
<td>003002000500</td>
<td>Touchberry PI 10.1 4B UPS &amp; RTC &amp; RS485 (Panel PC Industrial EMC Aluminum - Raspberry PI 4B Included + μSD Card with Raspbian - UPS,RTC,RS485 functions included)</td>
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<td>003002400100</td>
<td>TouchBerry PI 7&quot; - 10 Configurable I/Os - RS485 - RS232 - UPS Included (Raspberry PI 4B)</td>
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**Industrial Shields** was born in October 2012 from the hand of an engineer, who, searching for a more flexible PLC equipment and a better price, decided to develop its own solution using **Open Source Hardware**.

Therefore **Industrial Shields** is the brand that provides **Open Source Hardware** for industrial use, including all design and safety required, combining the best of two worlds.

**Industrial Shields**, designs, produces and markets the range of products based on **Open Source Hardware**.

Boot & Work Corp. S.L. is a company committed to the promotion, development, manufacture and selling of products based on Open Source technology to liberalize the industrial sector and boost the growth of its customers.

Our company's goal is to provide low cost solutions for automation in industrial environments.

The **Open Source Hardware** solutions are still not widely introduced in the industrial sector, it is a growing market and we are its pioneers.

The balance between quality and cost is very important for us and so for the market, using Open Source solutions we can provide more specifications at a better price.

Even more, the Open Source solutions are more flexible and accessible than the standard industrial solutions, and furthermore, the software is free of licences.

Industrial Shields are convinced with a perspective focused on **Industry 4.0 and the Internet of Things**.

Incompliance with:

- EN61010-1
- EN61010-2-201
- EN61131-2:2007 (Clause 8: Zone A/B EMC and clause 11:LVD)
- EN61000-6-4:2007 + A1 2011 (Emissions)
- EN 61000-6-2:2005 (Immunity)
- EMC: FCC Part 15
Industrial Shields has been working worldwide through distributors, or in direct contact with the customers. Our commercial, technical and support team will assist you by phone, email, Skype; or using the ticket system or chat directly in our website.

Get in touch with us. We are here, glad to help and support you.

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