

# OF INDUSTRIAL IOT

## TECHPANEL<sup>P500</sup>

# Energy-efficient RaspberryPi CM3+ Industrial Automation Touch Panel

**TECHPANEL** is an industrial-grade touch panel automation controller for wide range of industrial installations. Equipped with latest **Raspberry Pi Compute Module 3/3+** or Compute Module 3/3+ Lite, **7" capacitive touch display** and **IP65** hermetic casing with cast gaskets, can be used in harsh conditions of industrial applications.

**TECHPANEL** is powered by **quad-core Cortex-A53 1.2GHz** processor with **1GB RAM** and up to **32GB eMMC** or **8GB microSD** flash memory. Wide range of modems and extra wireline/wireless interfaces via expansion cards makes the **TECHPANEL** micro-computer a versatile addition to Industrial IoT solutions offered by TECHBASE company.

**TECHPANEL** devices can easily work remotely with existing ModBerry Gateways & Moduino ESP32 Edge Controllers for data accumulation and monitoring, to perform specific actions before sending the data to cloud services. **TECHPANEL** with Moduino - ModBerry installation can work as standalone Ecosystem (for example via MQTT), providing complex data management solution to any installation.

### **VISUAL MANAGEMENT**

The device is equipped with compact **800** x **480** px **7-inch TFT panel with 10 points capacitive touch** to allow the user to perform direct actions on-site. With **IP65** casing and extended working temperature range, TECHPANEL can be placed almost everywhere.

### **SOFTWARE & OS**

Over 23 million Raspberry Pi's have been sold and the Raspberry Pi is likely to stay as a new standard in the industry. Official **Raspbian OS** is free operating system based on Linux Debian optimized for the Raspberry Pi comes with over 35,000 packages, pre-compiled software bundled in a nice format for easy installation.



## TECHPANEL Series FEATURES



#### **COMPUTE MODULE INSIDE**

**TECHPANEL** is powered with latest Raspberry Pi's Compute Module 3/3+ with quad-core processor and optional eMMC



#### **CAPACITIVE TOUCH PANEL**

Compact 7-inch panel with 10 point capacitive touch for various data management and monitoring systems



#### WIRELESS COMMUNICATION

**TECHPANEL** can be equipped with additional wireless communication interfaces, e.g. Wi-Fi, Bluetooth, 3G/LTE, LoRa, Sigfox, NarrowBand-IoT



#### **INDUSTRIAL-GRADE CASING**

**TECHPANEL** comes with sturdy, hermetic sealed IP65 casing, optionally available for wall-mounting



#### ADJUSTABLE PARAMETERS

The parameters of the device can be enhanced with additional expansion cards, adding various wired and wireless interfaces

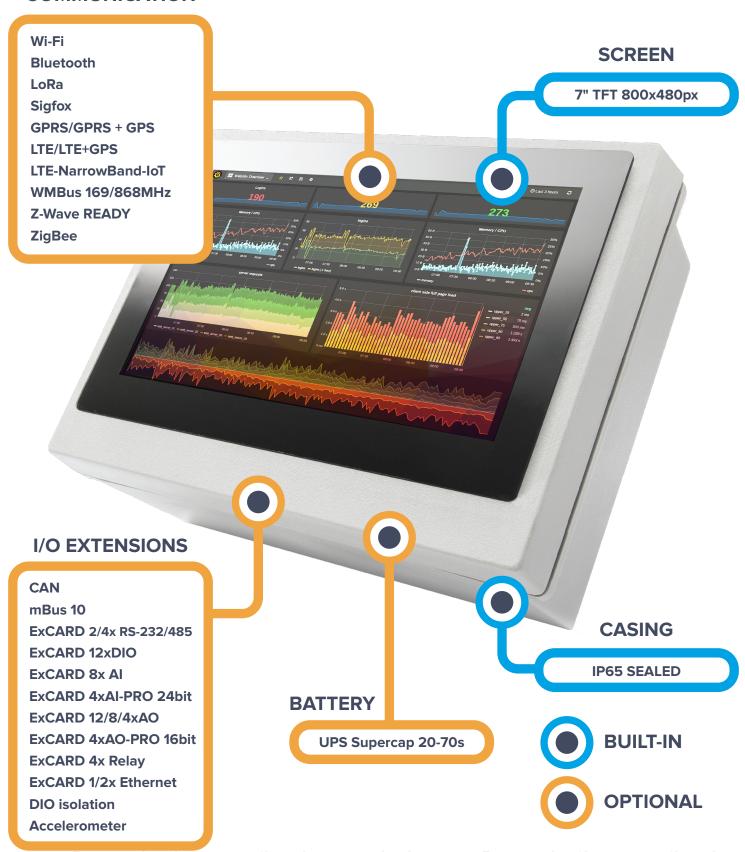




## **CONFIGURATION**



# WIRELESS COMMUNICATION



Specifications is subject to change without notice. Some of the features are optional. Technical parameters should be confirmed in the order details.



### **SPECIFICATION**





### **COST-EFFECTIVE & WIRELESS INDUSTRIAL IOT**

Module: Raspberry Pi Compute Module 3/3+ / Compute Module 3+ Lite

Processor: Cortex-A53 @ 4x 1.2 GHz

RAM: 1GB

Flash: 4 / 8 / 16 / 32 GB eMMC (CM3/3+ only)

SD card: 8 GB microSD (CM3/3+ Lite only)

Screen: 7-inch panel (800 x 480 px) with 10 points capacitive touch

Available extension interfaces\*: Ethernet, RS-232/485/422,

(optional) Digital I/Os, Analog I/Os, Relay,

mBus, CAN, Optoisolated I/Os, Accelerometer, etc.

Available wireless modems\*: Wi-Fi, Bluetooth,

(optional)

GPRS/EDGE, 3G, 4G/LTE, NarrowBand-IoT, GPS,

LoRa, ZigBee, Z-Wave, Sigfox,

Wireless M-Bus, etc.

Operating temperature: -20° ~ +70°

Power supply: 12 ~ 24 VDC

Casing: ABS with cast gaskets, wall-mount available

Level of protection:

**Dimensions:** 196 x 142 x 77 mm

<sup>\*</sup> not all optional interfaces / modems are available simultaneously



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