

# TECHPANEL<sup>P500</sup> M3+

## 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<sup>series</sup> 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

## WIRELESS COMMUNICATION

Wi-Fi  
Bluetooth  
LoRa  
Sigfox  
GPRS/GPRS + GPS  
LTE/LTE+GPS  
LTE-NarrowBand-IoT  
WMBus 169/868MHz  
Z-Wave READY  
ZigBee

## SCREEN

7" TFT 800x480px

## I/O EXTENSIONS

CAN  
mBus 10  
ExCARD 2/4x RS-232/485  
ExCARD 12xDIO  
ExCARD 8x AI  
ExCARD 4xAI-PRO 24bit  
ExCARD 12/8/4xAO  
ExCARD 4xAO-PRO 16bit  
ExCARD 4x Relay  
ExCARD 1/2x Ethernet  
DIO isolation  
Accelerometer

## BATTERY

UPS Supercap 20-70s

## CASING

IP65 SEALED

 BUILT-IN

 OPTIONAL



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



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# SPECIFICATION



## COST-EFFECTIVE & WIRELESS INDUSTRIAL IoT



<b>Module:</b>	Raspberry Pi Compute Module 3/3+ / Compute Module 3+ Lite
<b>Processor:</b>	Cortex-A53 @ 4x 1.2 GHz
<b>RAM:</b>	1 GB
<b>Flash:</b>	4 / 8 / 16 / 32 GB eMMC <b>(CM3/3+ only)</b>
<b>SD card:</b>	8 GB microSD <b>(CM3/3+ Lite only)</b>
<b>Screen:</b>	7-inch panel (800 x 480 px) with 10 points capacitive touch

<b>Available extension interfaces*:</b> <b>(optional)</b>	Ethernet, RS-232/485/422, Digital I/Os, Analog I/Os, Relay, mBus, CAN, Optoisolated I/Os, Accelerometer, etc.
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<b>Available wireless modems*:</b> <b>(optional)</b>	Wi-Fi, Bluetooth, GPRS/EDGE, 3G, 4G/LTE, NarrowBand-IoT, GPS, LoRa, ZigBee, Z-Wave, Sigfox, Wireless M-Bus, etc.
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<b>Operating temperature:</b>	-20° ~ +70°
<b>Power supply:</b>	12 ~ 24 VDC
<b>Casing:</b>	ABS with cast gaskets, wall-mount available
<b>Level of protection:</b>	IP65
<b>Dimensions:</b>	196 x 142 x 77 mm

\* not all optional interfaces / modems are available simultaneously



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