# WPP 10

www.promax.it

# USER MANUAL

Rev. 1.00.1

# 1  General

The PC PANEL WPP10 of Promax srl is an excellent integrated industrial system of operator panel and PC.
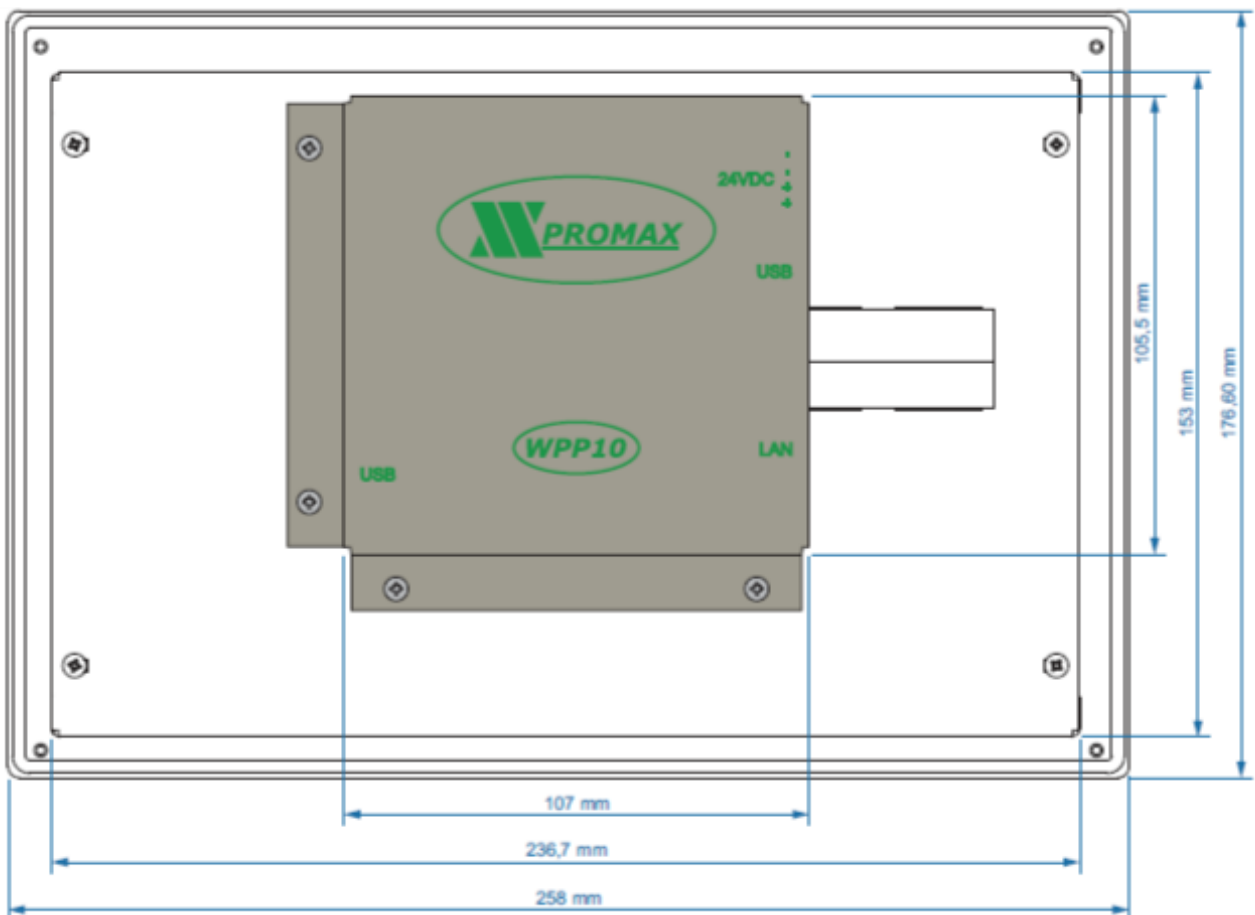The operating system used is Windows 10 IoT Enterprise.

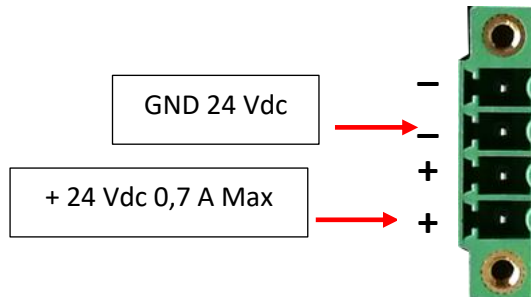| WPP 10 | |
|---|---|
| CPU | Intel® Celeron™ N3350  Dual Core 2.4 Ghz |
| RAM | 2/4 Gb LPDDR4 |
| DISPLAY | 10" Multi Touch Wide |
| STORAGE | eMMC 32 Gb |
| ETHERNET | 2 – Gb ETHERNET |
| GRAPHICS | Intel® Gen 9 HD/500 HD/505 |
| USB | 3 - USB 2.0 |
| S.O. | Windows 10  Enterprise LTSB |
| Power | 24 Vdc – 1,5 A max |
| TEMPERATURE | From -20° C to +70° C |
| PROTECTION | IP65 on front |
| DIMENSIONS (mm) | W258 H177 D67 |

## 2    Aspect

Front View



Back View

# 3   Features

## 3.1   Power Supply
WPP10 needs 24 VDC for power supply



GND 24 Vdc

+ 24 Vdc 0,7 A Max

The PIN **- −** e **++** are connect inside, therefore is sufficient connected only one of these.

The Max current is **1,5 A**, this is considered for full load.

## 3.2   USB 3.0 Ports

3 USB ports 3.0 on rear panel
In these ports can be connect all compatible devices
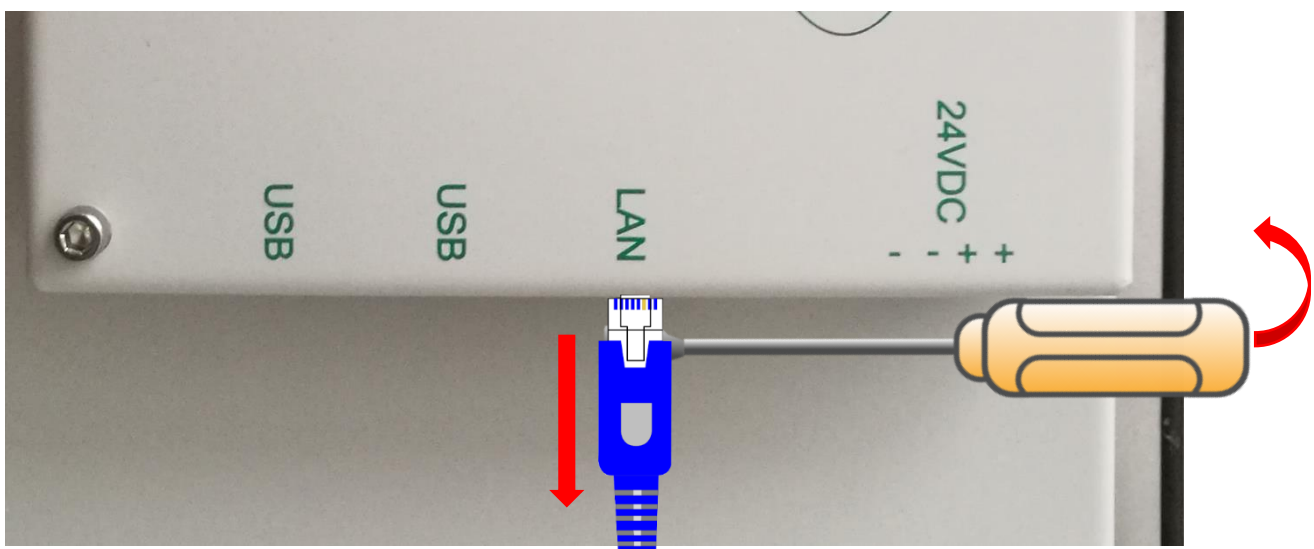
## 3.3   LAN Gb Ethernet Ports

2 LAN Gb Ethernet ports on RJ45 for a max speed of  Gbit/second.
In these ports can be connect all compatible devices

**WARNING**
**For disconnect the RJ45 cable see the following picture**
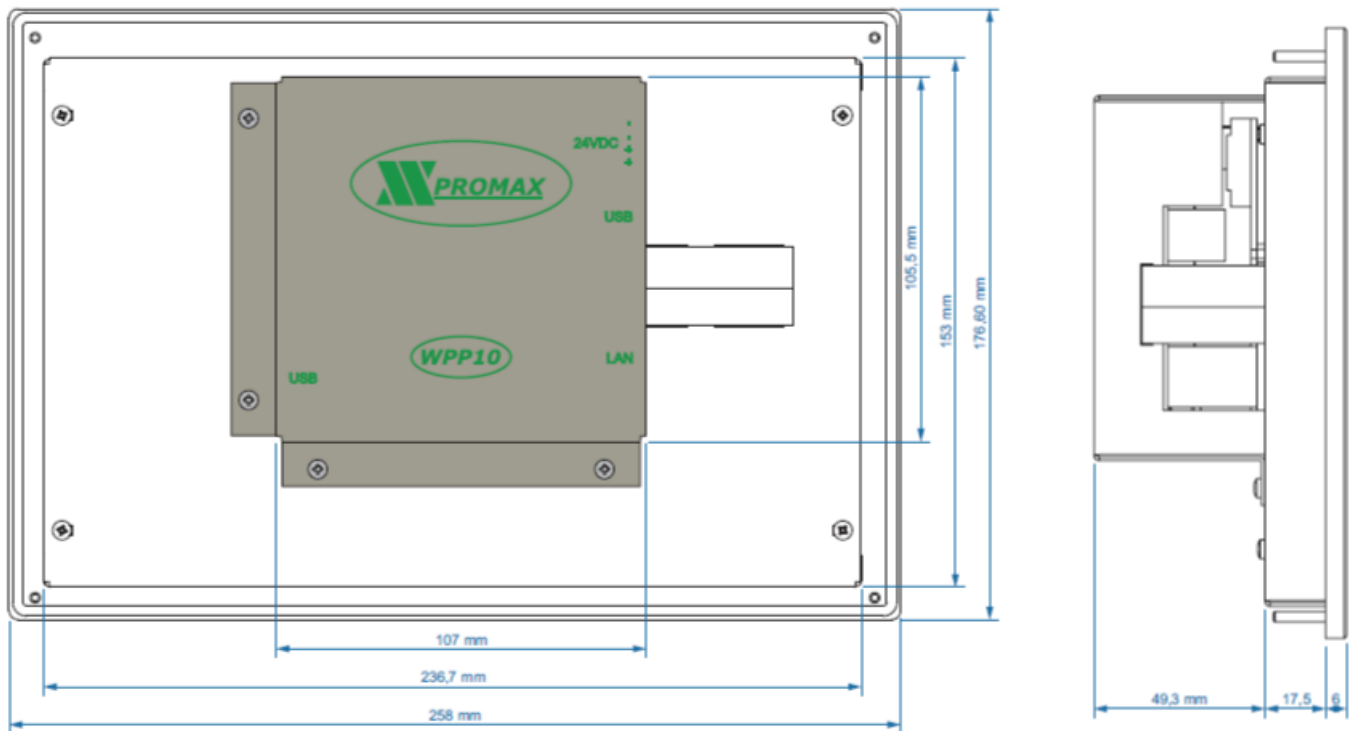
## 3.4   Storage

eMMC 32 Gb

## 3.5   Graphics

Intel® Gen 9 HD/500 HD/505

## 3.6   S.O.

Windows 10 IoT Enterprise LTSB with  LICENSE

# 4    Dimensions



# 5     Cut

# 6   Notes on the CE legislation

We have two directives about electronic devices, regarding the **WPP 10**: the 2006/42/CE (machine directive) about safety use of the devices and 2004/108/CE about electromagnetic compatibility.
About the first (machine directive), electric/electronic devices must complies the Union harmonisation legislation (Low Voltage Directive), Directive 2006/95/EC (until April 19th, 2016) and Directive 2014/35/EU (from April 20th, 2016) but it can be applied on devices supplied at 50-1000Vac or 75-1500Vdc **WPP 10** works at a voltage of 24Vdc (thus Intrinsically "safe"), so it belongs to "very low voltage" devices (class 0 legislation CEI 11.1), on which it isn't no legislation about.

On electromagnetic compatibility, regarding the Union harmonisation legislation Directive 2004/108/CE (until April 20th, 2016) and Directive 2014/30/EU (from April 20th, 2016), the device can be considered inherently benign in terms of electromagnetic compatibility because its inherent physical characteristics are such that:
a) it is incapable of generating or contributing to electromagnetic emissions which exceed a level allowing radio and
telecommunications equipment and other equipment to operate as intended;
b) it will operate without unacceptable degradation in the presence of the electromagnetic disturbance normally present in its intended environment
Moreover, this device cannot be classified as a "finished appliance with an independent functionality", due the
**WPP 10** haven't any use outside a complex electromechanics system, the machine electric board, made by a manufacturer in an industrial ambit and not by a final user.
Thus, it hasn't any certification duty.

PROMAX however, can institute some specific measure as a pre-compliance, in case of particular demands of costumers, regarding the device electromagnetic characterization.
For example, can be made some measure under the CEI EN 61000-6-1 norm (2007 generic norms – residential, commercial and light industrial ambient immunity) or CEI EN 61000-6-1 (2007 generic norms -  residential, commercial and light industrial ambient emission)

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