

WPC

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USER MANUAL



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Rev. 1.00.2

1 General

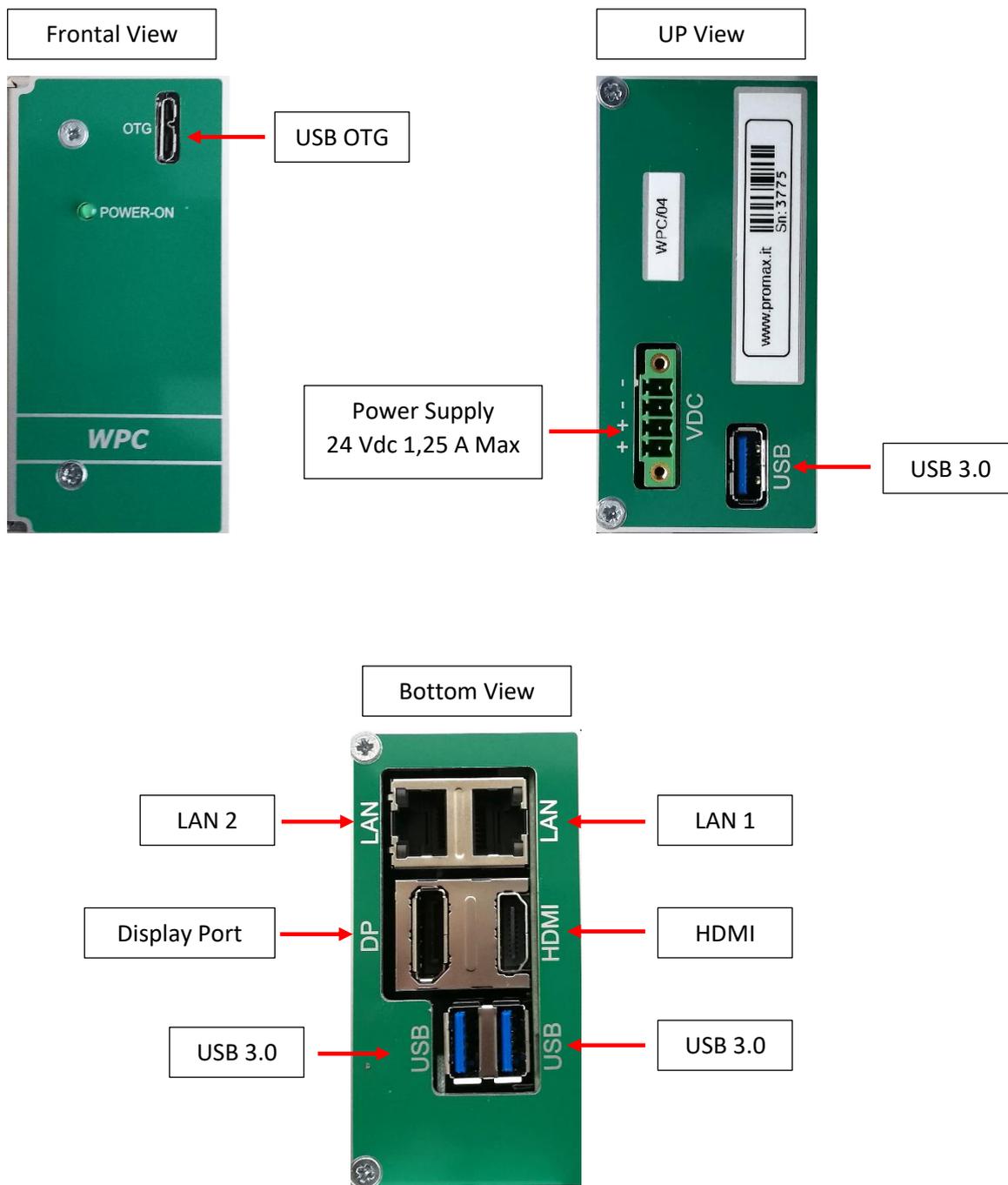
The MiniPc by Promax srl respects all the features of a Windows® 10 PC.

Can be equipped with different configurations, RAM, Storage CPU.

In WPC is installed Windows 10 Enterprise LTSB, full compatible for all Windows applications.

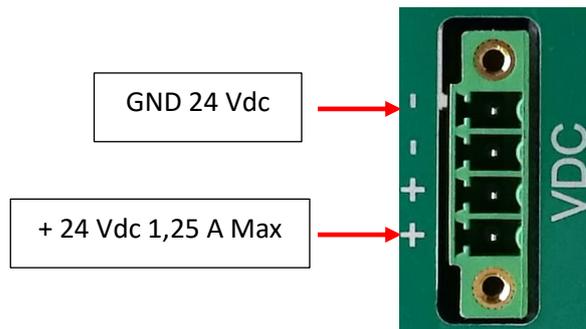
| WPC | |
|-----------------|----------------------------|
| CPU | Intel® Celeron N3350/N4200 |
| RAM | 2/4/8 Gb LPDDR4 |
| STORAGE | eMMC 32/64/128 Gb |
| ETHERNET | 2 – Gb ETHERNET |
| GRAPHICS | Intel® Gen 9 HD/500 HD/505 |
| USB | 3 - USB 3.0 1- USB OTG |
| VIDEO OUTPUT | 1 – HDMI 1 - DP |
| O.S. | Windows 10 Enterprise LTSB |
| POWER SUPPLY | 24 Vdc – 1,25 A max |
| TEMPERATURE | From -20° C to +70° C |
| PROTECTION | IP20 |
| DIMENSIONS (mm) | W55 H95 D90 |

2 Aspect



2.1 Power Supply

WPC needs 24 VDC for power supply



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

The Max current is **1,25 A**, this is considered for full load and Pentium CPU, therefor others configurations can use a less current (about 0,5 A)

2.2 USB 3.0 Ports

3 USB ports 3.0 type A, 2 on bottom panel and 1 on Up panel
In these ports can be connect all compatible devices

2.3 USB OTG Port

The USB OTG port, is not used in this configuration.
However it can be used for alternative power supply instead of 24 Vdc, with 5V 4-6 A

2.4 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

2.5 Video Output HDMI and DP

Full HDMI 1.4b – 4K @ 30 hz and Display Port DP 1.2 – 4K @ 60 hz.
These ports allow to connect a external monitors

2.6 Storage

eMMC 32 Gb,64 Gb,128 Gb based of configuration

2.7 Graphics

Intel® Gen 9 HD with 12 (Celeron) /18 (Pentium)Execution Unit,
Support 4K Codec Decode and Encode for HEVC4, H.264, VP8

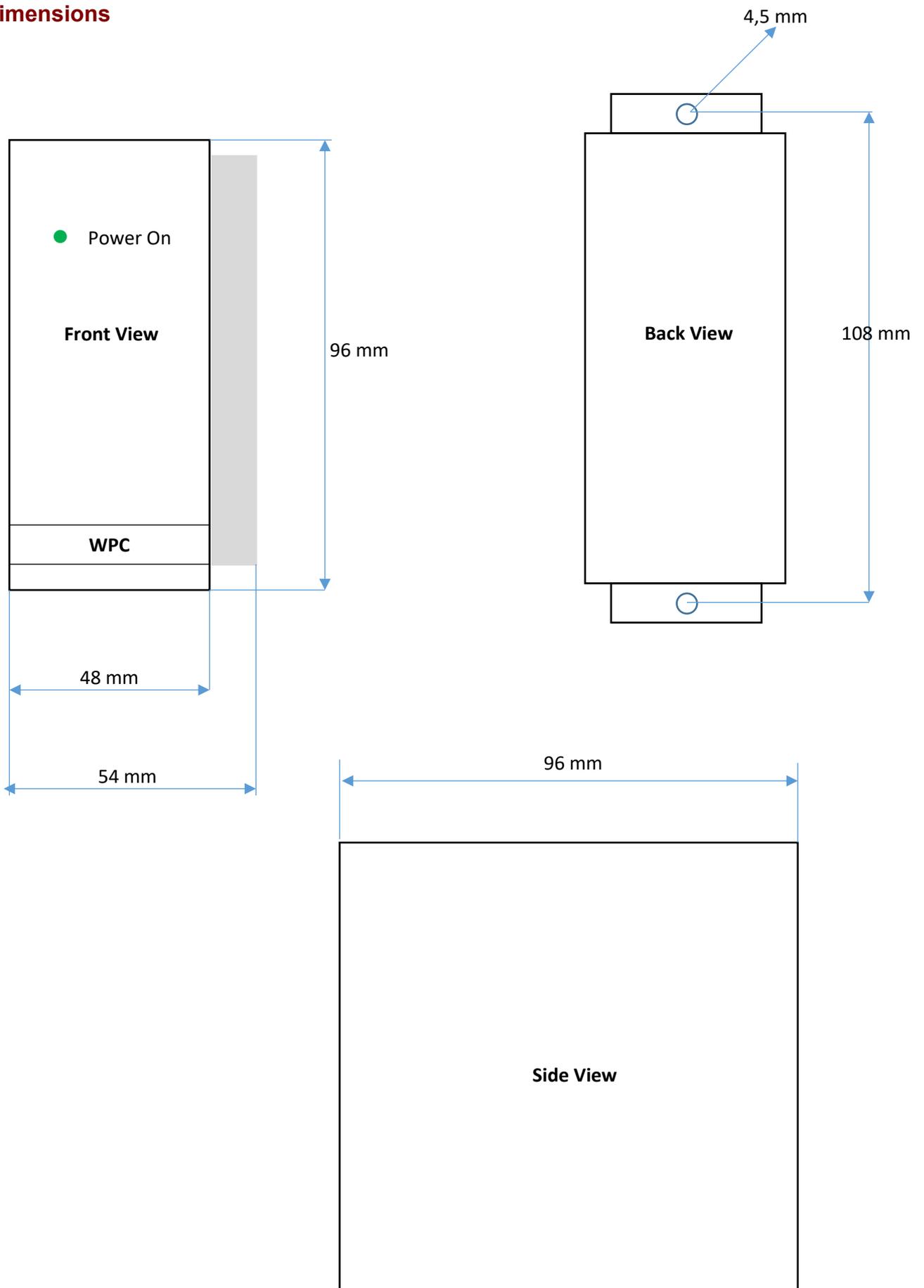
2.8 RTC

RTC (Real Time Clock) inside

2.9 S.O.

Windows® 10 Enterprise LTSC

2.10 Dimensions



3 Notes on the CE legislation

We have two directives about electronic devices, regarding the **WPC**: 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 comply 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 **WPC** 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 **WPC** 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)

Index

| | | |
|------|-----------------------------------|---|
| 1 | General..... | 3 |
| 2 | Aspect..... | 4 |
| 2.1 | Power Supply | 5 |
| 2.2 | USB 3.0 Ports..... | 6 |
| 2.3 | USB OTG Port | 6 |
| 2.4 | LAN Gb Ethernet Ports | 6 |
| 2.5 | Video Output HDMI and DP | 6 |
| 2.6 | Storage | 6 |
| 2.7 | Graphics | 6 |
| 2.8 | RTC | 6 |
| 2.9 | S.O. | 6 |
| 2.10 | Dimensions..... | 7 |
| 3 | Notes on the CE legislation | 9 |