

WPC

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USER MANUAL



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Rev. 1.00.1

1 General

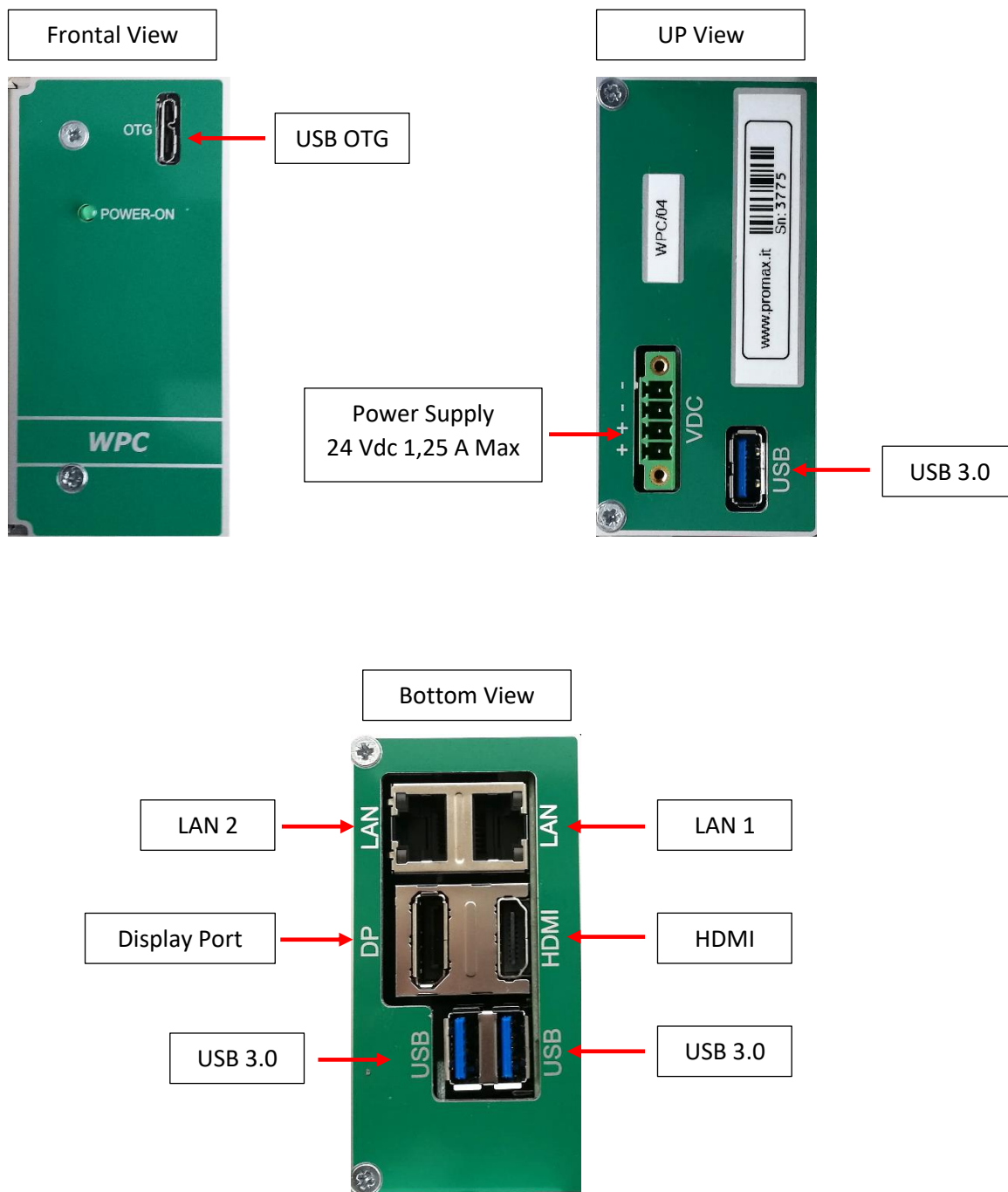
The MiniPc by Promax srl respects all the features of a Windows® 10 PC.

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

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

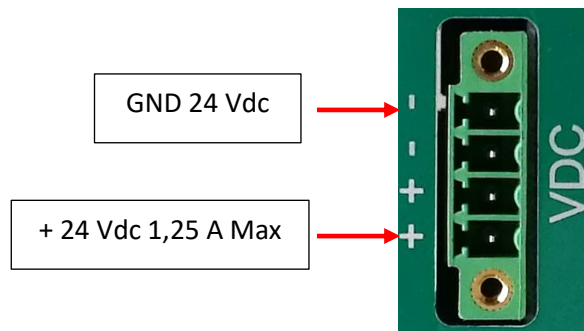
WPC	
CPU	Intel® Celeron N3350/N4200
RAM	2/4/8 Gb LPDDR4
STORAGE	eMMC 32/64/128 Gb
ETHERNET	2 – Gb ETHERNET
GRAPHICS	Intel® Gen 9 HD/500 HD/505
USB	3 - USB 3.0 1- USB OTG
VIDEO OUTPUT	1 – HDMI 1 - DP
O.S.	Windows 10 Enterprise LTSB
POWER SUPPLY	24 Vdc – 1,25 A max
TEMPERATURE	From -20° C to +70° C
PROTECTION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

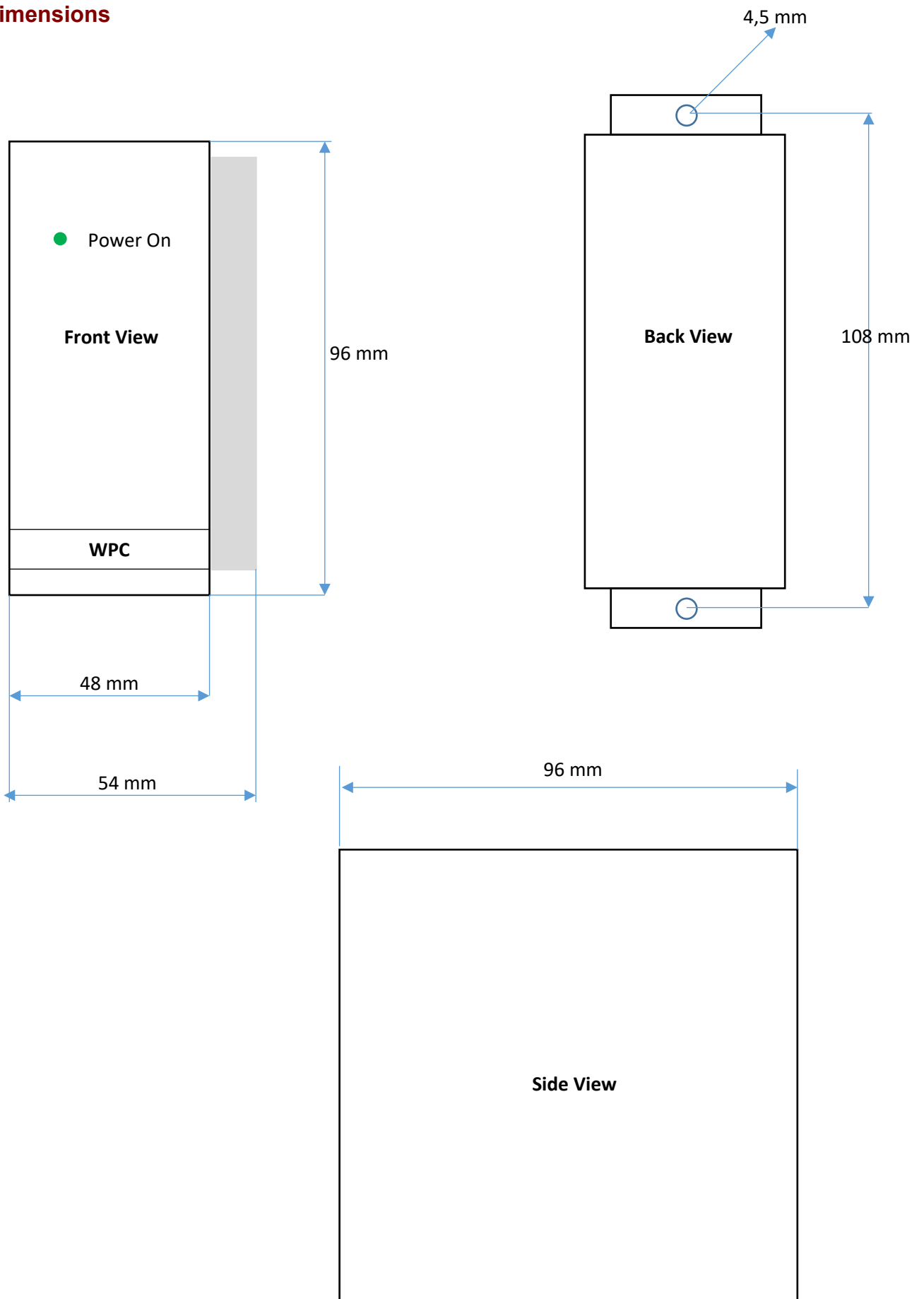
2.8 RTC

RTC (Real Time Clock) inside

2.9 S.O.

Windows® 10 Enterprise LTSC

2.10 Dimensions



3 Notes on the CE legislation

WPC

We have two directives about electronic devices, regarding the WHC : 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 "low voltage" directive (2006/95/CE) but it can be applied on devices supplied at 50-1000Vac or 75-1500Vdc. WHC 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 2004/108/CE norm, this device can be classified as a "finished appliance". Due to the fact that the WPC will be normally integrated inside a complex electromechanics system, the machine electric board, by a manufacturer in an industrial ambit and not by a final customer, it haven'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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