

IACBOX Hardware Models



Start deploying fast and easy!

The IACBOX Hardware appliance completes the Internet hotspot solution package for small, medium and large sized Internet hotspots. It supports up to thousands of concurrent users in a wireless, wired or hybrid network infrastructure. The server hardware comes with the latest IACBOX software version preinstalled. There are five different hardware models available based on the required license size.

Lite Plus Server

This is the more powerful version of the Lite Server with a total of 4 Ethernet ports plus a HDMI port. Recommended for **Lite version 25, 50, 75, 100, 175 and 250 and Full version 10, 25, 50, 75, 100 and 175**, it comes with more processor power. With passive cooling and 64GB SSD, it is a compact desktop model with low power consumption.



Specifications

Hardware model	Lite Plus Server
Form factor	Desktop
Processor	Intel Core i3-5005U (Dual-Core, 4 Threads) 2.0 GHz
RAM	4 GB
Hard disk	64GB SSD
Ethernet ports	4x GBit Ethernet
I/O ports	1x HDMI, 2x USB2, 2x USB3, 1x COM
Dimensions (H x W x D)	52 x 187 x 115 mm
Weight	ca. 1,5 kg
Power Supply	12V - external
Hardware support	18-24 months (bring-in)
Certifications	CE, RoHS
Maximum concurrent users / devices	250 (Lite Version), 175 (Full Version)

Basic Server

The new hardware model Basic Server is recommended for the **Full Version 10, 25, 50, 75, 100, 175 and 250** and includes 18 - 24 months bring-in standard hardware maintenance. Due to the use of SSD (Solid-State-Disk), the server is almost noiseless, power-saving and, in contrast to conventional hard disks, free of sensitive mechanics or moving parts. Its 19" short-rack design makes it perfectly suitable for rack mounting in smaller projects. It comes with 8xGbit Ethernet connections for Management LAN.



Specifications

Hardware model	Basic Server
Form factor	1U 19" Rack
Processor	Intel Core i5-10210U Quad Core (8
RAM	4 GB
Hard disk	128 GB SSD
Ethernet ports	8x GBit Ethernet
I/O ports	1x HDMI, 1x Display Port, 2x USB2, 2x USB3
Dimensions (H x W x D)	44 x 440 x 112 mm
Weight	ca. 3 kg
Power supply	Internal
Hardware support	18-24 months (bring-in)
Certifications	CE, RoHS
Maximum concurrent users / devices	250 (Full Version)

Advanced Server

The Advanced server is recommended for use with the **IACBOX Full Version 100, 175, 250, 375, 500**. It is also suitable for racks outside dedicated server rooms thanks to lower noise levels than the larger rack models (Power Server and higher) and differs from our Basic model by better ventilation performance (2 fans to the rear). With 8GB Ram and NVME hard disk, this server is very powerful.



Specifications

Hardware model	Advanced Server
Form factor	1U 19" Rack
Processor	Intel Core i5-1135G7 Quad Core (8 Threads) 2,4 GHz
RAM	8 GB DDR4
Hard disk	500 GB M2 NVMe SSD
Ethernet ports	6x GBit Ethernet
I/O ports	1x VGA, 2x USB3.1
Dimensions (H x W x D)	44 x 440 x 252 mm
Weight	ca. 5 Kg
Power supply	Intern
Certification	CE, RoHS
Maximum concurrent users / devices	750 (Full Version)

Power Server

The hardware model Power Server is recommended for **Full version 100, 175, 250, 375, 500 and 750** for medium sized projects and can optionally be ordered with 30-36 or 54-60 months on-site hardware support* (8x5, NBD) and an additional 3rd Gigabit ethernet interface (Management LAN).



IMPORTANT: Due to the noise generated by the fan, this model is only suitable for operation in dedicated server rooms.

Specifications

Hardware model	Power Server
Form factor	1U 19" Rack
Processor	Intel® Xeon® E-2124 3.3/4.3
RAM	8 GB
Hard disk	min. 1 TB HDD, without hot-swap
Ethernet ports	2x GBit Ethernet (3x GBit Ethernet optional)
I/O ports	5x USB 3.0, 1x COM, 1x VGA
Dimensions (H x W x D)	43,5 x 430 x 383 mm
Weight	ca. 8 kg
Power supply	290 W power supply - internal
Certification	CE, FCC Class A
Maximum concurrent users / devices	750 (Full Version)
Accessories	Rack-rail-kit

Performance Server

The hardware model Performance Server is recommended for **Full version 500, 750, 1000, 1500, 2000** and includes by default already. This server is used for larger projects and is optionally available with 30-36 or 54-60 months on-site hardware support* (8x5, NBD), an additional 3rd Gigabit ethernet interface (Management LAN) and hardware RAID1 controller.



IMPORTANT (if operated without raid): Due to the noise generated by the fan, this model is only suitable for operation in dedicated server rooms.

Specifications

Hardware model	Performance Server
Form factor	1U 19" Rack
Processor	Intel® Xeon® E-2136 3.3./4.5 GHz (6 cores, 12 threads) or similar
RAM	16 GB
Hard disk	min. 400 GB SSD (hardware RAID 1 optional), hot-swap
Ethernet ports	2x GBit Ethernet (3x GBit Ethernet optional) (10 Gb dual-port Ethernet opt.)
I/O ports	5x USB, 3.0, 1x VGA
Dimensions (H x W x D)	43,5 x 430 x 383 mm
Weight	ca. 8 kg
Power supply	500 W power supply - internal
Certifications	CE, FCC Class A
Maximum concurrent users / devices	2000 (Full Version)
Accessories	Rack-rail-kit

High Performance Server

For sophisticated installations with **2000, 3000 or unlimited concurrent users** we recommend the hardware model High Performance Server. This server can optionally be ordered with 30 -36 or 54-60 months on-site hardware support* (8x5, NBD), and 2 x 10 Gb ethernet interface (Management LAN).



* operated by manufacturer/time spread due to storage period
All specifications and pictures are subject to change without notice.

Specifications

Hardware model	High Performance Server
Form factor	1U 19"
Processor	AMD® EPYC® 7351P 2.4/3.9 GHz (16 cores, 32 threads) or similar
RAM	32 GB
Hard disk	1 TB HDD - RAID 6 with 4x1 TB (advanced data guarding)
Ethernet ports	2x 10 GBit Ethernet 4x 1 GBit Ethernet
I/O ports	5x USB, 3.0, 1x VGA
Dimensions (H x W x D)	3,5 x 615 x 430 mm
Weight	ca. 20 kg
Power supply	2x 500 W (redundant power supply)
Certifications	CE, FCC Class A
Maximum concurrent users / devices	unlimited / ~10 000 (Full Version)
Accessories	Rack-rail-kit

Ticket Printer

These optional thermal ticket (voucher) printers allow to create predefined Internet tickets with their appropriate login information, simply by the touch of a button, without any system log-in. The PRINT button can be assigned freely multiple times to create different ticket types swiftly (e.g. 1x press = 1 day, 2x press = 60 minutes).

The printer models Epson TM-T20III and Metapace T-40 come with a cutter, 80mm paper width, easy paperload and are available with integrated Ethernet network interface.

Epson TM-T20III

Specifications

Paper type	Thermal paper
Paper width	80mm or 58mm
Paper roll diameter	max. 83mm
Interface	Ethernet
Auto cutter	yes
Dimesions (WxHxD in mm)	140 x 146 x 199 mm
Weight	1,7kg



Hardware Requirements

The hardware requirements basically depend on three parameters:

- Number of concurrent users / devices
- Usage of HTTP web filter module
- Usage of Application Control module

IACBOX Software can be installed on almost every standard PC hardware which is certified for Linux distributions like SUSE® Linux Enterprise Server, Red Hat® Enterprise Linux or similar Linux Distributions.

Hardware Requirements:

User / Devices	CPU Cores *	RAM *	HDD
10	1	2 GB	20 GB
25	1	2 GB	20 GB
50	2	2 GB	30 GB
75	2	2 GB	30 GB
100	2	2 GB	60 GB
175	2	2 GB	60 GB
250	4	4 GB	100 GB
375	4	4 GB	100 GB
500	4	4 GB	150 GB
750	4	4 GB	150 GB
1000	4	8 GB	200 GB
1500	4	8 GB	200 GB
2000	8	8 GB	250 GB
3000	8	16 GB	250 GB
unlimited	8	16 GB	300 GB

CPU Cores:

* Starting from 250 users processor with 2,50 GHz or better required.

* Virtualisation environments generally need more resources.

* Functions like advanced Web Filter, Application Control or Connection Tracking are very CPU-intensive and should therefore be used with great care.

RAM:

* In order to use the new DNS based Web Filter of IACBOX version 17.2, at least 4 GB of internal memory must be available.