

## 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 hotspot providers. It supports up to thousands concurrent users in a **wireless, wired or hybrid network** infrastructure. You receive the server hardware you require already with the latest IACBOX Software version preinstalled. There are five different hardware models available based on the required license.

### Lite Server

This flexible desktop model is the perfect solution for smaller projects. The **Lite Server** hardware is recommended for **Lite version 25, 50, 75, 100, 175 and 250**. Due to the use of SSD (Solid-State-Disk) this fanless server is absolutely silent, energy efficient, insensitive to vibrations as well as free from mechanical and moving parts unlike usual hard disks.

#### Specifications

Hardware model	Lite Server
Form factor	Desktop
Processor	AMD G series 1 GHz quad-core processor
RAM	4 GB
Hard disk	60 GB mSATA SSD
Ethernet ports	3 x GBit ethernet
I/O ports	2 x USB, 1x COM
Dimensions (H x W x D)	30 x 168 x 175 mm
Weight	ca. 1 kg
Power Supply	12V DC, 6-12 W – external
Hardware support	24 or 36 months (bring-in)
Certifications	CE, FCC Class B
Maximum concurrent users / devices	250



## Basic Server

The very scalable hardware model **Basic Server** is recommended for **Full version 10, 25, 50, 75, 100 and 175** and includes per default already 30 months bring-in hardware service (standard hardware maintenance). Due to the use of SSD (Solid-State-Disk) the server is almost silent, energy efficient, insensitive to vibrations as well as free from mechanical and moving parts unlike usual hard disks. Because of the **19" short-rack design** this server is perfectly suitable for rack mounting in smaller projects. This model is optionally available with an additional 3rd Gigabit ethernet interface (Management LAN).



### Specifications

Hardware model	Basic Server
Form factor	1HE - 19" rack mount
Processor	Intel® pentium quad core 1.6GHz or more up to date
RAM	4 GB
Hard disk	min. 128 GB SSD
Ethernet ports	2 x GBit ethernet (3 x GBit ethernet optional)
I/O ports	2x USB, 1x COM, 1x VGA, PS/2
Dimensions (H x W x D)	437 x 249 x 43 mm
Weight	ca. 5 kg
Power supply	200 W power supply - internal
Hardware support	30 months (bring-in)
Certifications	CE, FCC
Maximum concurrent users / devices	175 (Full Version)
Accessories	rack mounting brackets

## 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).



### Specifications

Hardware model	Power Server
Form factor	1HE - 19" rack mount
Processor	Intel® Xeon® E-2124 3.3/4.3 GHz (4 Cores) or similar
RAM	8 GB
Hard disk	min. 1 TB HDD, without hot-swap
Ethernet ports	2 x GBit ethernet (3 x GBit ethernet optional)
I/O ports	5x USB 3.0, 1x COM, 1x VGA
Dimensions (H x W x D)	430 x 43,5 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.



### Specifications

Hardware model	Performance Server
Form factor	1HE - 19" rack mount
Processor	Intel® Xeon® E-2136 3.3-/4.5 GHz (6 cores, 12 threads) or similar
RAM	16 GB
Hard disk	min. 1 TB HDD (hardware RAID 1 optional), hot-swap
Ethernet ports	2 x GBit ethernet (3 x GBit ethernet optional) (10 Gb dual-port ethernet opt.)
I/O ports	5x USB, 3.0, 1x VGA
Dimensions (H x W x D)	430 x 43,5 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).



### Specifications

Hardware model	High Performance Server
Form factor	1HE - 19" rack mount
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	2 x 10 GBit ethernet 4 x 1 GBit ethernet
I/O ports	5x USB, 3.0, 1x VGA
Dimensions (H x W x D)	430 x 43,5 x 615 mm
Weight	ca. 20 kg
Power supply	2 x 500 W (redundant power supply)
Certifications	CE, FCC Class A
Maximum concurrent users / devices	unlimited / ~10 000 (Full Version)
Accessories	Rack-rail-kit

\* operated by manufacturer  
All specifications and photos are subject to change without notice.

# Ticket Printer

The optional Thermal Ticket Printer (voucher printer) allows you to **create predefined Internet tickets** with appropriate login information with a simple touch of a button. 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-T20 and TM-T20III come with a cutter, energy safemode, 80mm paper width, easy paperload and is available with integrated ethernet interface.

## 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
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	60 GB
25	1	2 GB	60 GB
50	2	2 GB	60 GB
75	2	2 GB	60 GB
100	2	2 GB	60 GB
175	2	2 GB	60 GB
250	4	4 GB	1 TB
375	4	4 GB	1 TB
500	4	4 GB	1 TB
750	4	4 GB	1 TB
1000	4	8 GB	1 TB
1500	4	8 GB	1 TB
2000	8	8 GB	1 TB
3000	8	16 GB	1 TB
unlimited	8	16 GB	1 TB

#### 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.