IACBOX
Internet Access Control

IACBOX Hardware Models



Get started quickly and easily

IACBOX hardware with preinstalled IACBOX software provides the central platform for guest WiFi and Internet hotspots in small, medium and large installations. Depending on the hardware model, licence and usage, the solution supports several thousand concurrent users or devices in wireless, wired or mixed networks. This datasheet presents seven hardware models.

Lite Plus Server

The Lite Plus Server has four Ethernet ports and one HDMI port. It is recommended for **Lite editions 25, 50, 75, 100, 175 and 250, Pro editions 25, 50, 75, 100 and 175,** and **Full editions 10, 25, 50, 75, 100 and 175.** This compact desktop model is fully passively cooled and equipped with a 64 GB SSD.





Specifications

Hardware model	Lite Plus Server
Form factor	Desktop
Processor	Intel Core i3-5005U (2 cores, 4 threads) 2.0 GHz
RAM	4 GB
Storage	64 GB SSD
Ethernet ports	4 x Gbit/s Ethernet
I/O ports	1 x HDMI, 2 x USB 2.0, 2 x USB 3.0, 1 x COM
Dimensions (H x W x D)	52 x 187 x 115 mm
Weight	Approx. 1.5 kg
Power supply	External, 12 V output voltage
Hardware support	18-24 months (return-to-base)
Certifications	CE, RoHS
Maximum concurrent Users / devices	250 (Lite edition), 175 (Full edition)

Basic Server

The Basic Server is recommended for **Pro editions 25, 50, 75, 100, 175 and 250** and **Full editions 10, 25, 50, 75, 100, 175 and 250.** It includes 18-24 months of return-to-base hardware service as standard. The SSD has no moving parts and is less sensitive to shocks than mechanical hard drives. Its compact 19-inch rack design makes the server suitable for smaller projects. Eight Gigabit Ethernet ports allow a separate Management LAN with the appropriate configuration.





Specifications

Hardware model	Basic Server
Form factor	1U 19-inch Rack
Processor	Intel Core i5-10210U (4 cores, 8 threads), 1.6 GHz base clock
RAM	4 GB
Storage	128 GB SSD
Ethernet ports	8 x Gbit/s Ethernet
I/O ports	1 x HDMI, 1 x DisplayPort, 2 x USB 2.0, 2 x USB 3.0
Dimensions (H x W x D)	44 x 440 x 112 mm
Weight	Approx. 3 kg
Power supply	Internal
Hardware support	18-24 months (return-to-base)
Certifications	CE, RoHS
Maximum concurrent Users / devices	250 (Full edition)

Advanced Server

The Advanced Server is recommended for **Pro and Full editions 100, 175, 250, 375, 500 and 750.** It has two rear fans, 8 GB RAM and an M.2 NVMe SSD. The installation location must be assessed for suitability based on noise levels and cooling requirements.





Specifications

Hardware model	Advanced Server
Form factor	1U 19-inch
Processor	Intel Core i5-12400 6 cores (12 threads) 2.5 GHz
RAM	8 GB
Storage	M.2 NVMe SSD
Ethernet ports	6 x Gbit/s Ethernet
I/O ports	1 x VGA, 2 x USB 3.1
Dimensions (H x W x D)	44 x 440 x 252 mm
Weight	Approx. 5 kg
Power supply	Internal
Certifications	CE, RoHS
Maximum concurrent Users / devices	750 (Full edition)

Advanced Plus Server

The Advanced Plus Server is recommended for **Pro and Full editions 100, 175, 250, 375, 500, 750 and 1,000.** It has 16 GB RAM, a 500 GB M.2 SSD, six 2.5 Gbit/s Ethernet ports and two 10 Gbit/s SFP+ ports. It is suitable for projects with up to 1,000 concurrent users or devices.



Specifications

Hardware model	Advanced Plus Server
Form factor	19-inch Rack, 1U
Processor	Intel Core i5 6 cores, 12 threads
RAM	16 GB
Storage	500 GB M.2 SSD
Ethernet ports	6 x 2.5 Gbit/s Ethernet, 2 x 10 Gbit/s SFP+
I/O ports	1 x VGA, 2 x USB, 1 x RJ45 Console
Dimensions (H x W x D)	44 x 440 x 290 mm
Weight	Approx. 5 kg
Power supply	Internal 230 V PSU, up to 350 W
Certifications	CE, RoHS
Maximum concurrent Users / devices	1,000 (Full edition)

Power Server

The Power Server is recommended for **Pro and Full editions 100, 175, 250, 375, 500 and 750** in medium-sized projects. Optional on-site hardware service* (8x5, NBD) is available for 30-36 or 54-60 months.



IMPORTANT: Due to fan noise, this model is suitable only for use in server rooms.

Specifications

Hardware model	Power Server
Form factor	1U 19-inch Rack
Processor	Intel® Xeon® E-2434 (4 cores, 8 threads) or equivalent
RAM	16 GB
Storage	Min. 960 GB SSD, no hot-swap
Ethernet ports	4 x Gbit/s Ethernet (3 x Ethernet, 1 x iLO)
I/O ports	5 x USB 3.0, 1 x VGA
Dimensions (H x W x D)	43.5 x 434 x 378 mm
Weight	Approx. 9 kg
Power supply	Internal 290 W power supply
Certifications	CE, FCC Class A
Maximum concurrent Users / devices	750 (Full edition)
Accessories	Rack rail kit

Performance Server

The Performance Server is recommended for **Pro editions 500, 750, 1,000 and 1,500** and **Full editions 500, 750, 1,000, 1,500 and 2,000.** It is used in larger projects. Optional on-site hardware service* (8x5, NBD) is available for 30-36 or 54-60 months.





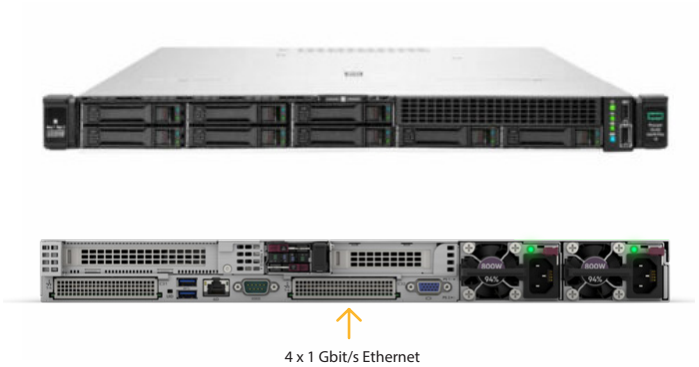
IMPORTANT: Due to fan noise, this model is suitable only for use in server rooms.

Specifications

Hardware model	Performance Server
Form factor	1U 19-inch Rack
Processor	Intel® Xeon® E-2436 (6 cores, 12 threads) or equivalent
RAM	16 GB
Storage	Min. 960 GB SSD, Hot-Swap
Ethernet ports	4 x Gbit/s Ethernet (3 x Ethernet, 1 x iLO) (10 Gb Dual-Port Ethernet opt.)
I/O ports	5 x USB 3.0, 1 x VGA
Dimensions (H x W x D)	43.5 x 434 x 378 mm
Weight	Approx. 9 kg
Power supply	Internal 290 W power supply
Certifications	CE, FCC Class A
Maximum concurrent Users / devices	2,000 (Full edition)
Accessories	Rack rail kit

High Performance Server

The High Performance Server is recommended for demanding Full edition installations with 2,000, 3,000 or an Unlimited licence. Hardware RAID and two 10 Gbit/s Ethernet ports are included, with RJ45 or SFP+ connectivity depending on the configuration. Optional on-site hardware service* (8x5, NBD) is available for 30-36 or 54-60 months.



* Provided by the hardware manufacturer or its service partner.
Subject to change. Errors and misprints excepted.

Specifications

Hardware model	High Performance Server
Form factor	1U 19-inch Rack
Processor	AMD® EPYC® 9124 (16 cores, 32 threads) or equivalent
RAM	32 GB
Storage	RAID 10 with 4 x 960 GB SSD
Ethernet ports	2 x 10 Gbit/s Ethernet 4 x 1 Gbit/s Ethernet 1 x iLO
I/O ports	5 x USB 3.0, 1 x VGA
Dimensions (H x W x D)	43.5 x 434 x 649 mm
Weight	Approx. 20 kg
Power supply	2 x 1,000 W (redundant)
Certifications	CE, FCC Class A
Maximum licence size Full edition	Unlimited licence (Full edition)
Accessories	Rack rail kit

Ticket printers

After initial setup, an optional thermal ticket printer (POS receipt printer) lets you create Internet vouchers with access credentials at the press of a button, without logging into IACBOX WebAdmin. In WebAdmin, you can assign ticket templates to different numbers of presses of the paper feed button (e.g. one press for a one-day ticket, two presses for a 60-minute ticket).

The Epson TM-T20IV and Metapace T-40 printer models are available with an Ethernet interface and an automatic cutter. The Metapace T-40 uses 80 mm paper. The Epson TM-T20IV supports 80 mm or 58 mm paper with the appropriate paper guide and configuration.

Epson TM-T20IV

Specifications

Paper type	Thermal paper
Paper width	80 mm or 58 mm
Paper roll diameter	max. 83 mm
Interface	Ethernet
Automatic cutter	Yes
Dimensions (H x W x D)	146 x 140 x 199 mm
Weight	1.7 kg



Hardware Requirements

Hardware requirements depend in particular on the following factors:
- Number of concurrent users or devices and network traffic
- Enabled features, particularly Application Control, Connection Tracking and a large number of VLANs
- Use of the DNS filter (at least 4 GB RAM)

Installation requires hardware components compatible with the current IACBOX version or supported virtualisation platforms. Please refer to the current hardware and installation requirements in the IACBOX documentation.

Minimum hardware requirements:

Users / devices	CPU cores *	RAM *	Storage
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
1,000	4	8 GB	200 GB
1,500	4	8 GB	200 GB
2,000	8	8 GB	250 GB
3,000	8	16 GB	250 GB
Unlimited	8	16 GB	300 GB

CPU cores:
* For 250 or more concurrent devices, a CPU clock speed above 2.5 GHz is recommended.
* At least two CPU cores are recommended even for small production installations.
* Application Control, Connection Tracking and many VLANs increase CPU demand. Allow for this when sizing the system.

RAM:
* At least 4 GB RAM is required when using the DNS filter.