

# Server with built-in switch



## FEATURES

- Four options of processor to choose from
- Dedicated processor for hosting custom platforms or applications
- Built-in manageable Gigabit network switch

## APPLICATIONS

- Firewall installation
- IP PBX
- Voice gateway
- Proxy server
- IVR - Interactive Voice Response
- DAC

## Overview

EBS Server PRO is an appliance consisting of a Gigabit Ethernet switch integrated into a server, allowing you to install custom operating systems and applications. This appliance is presented as an excellent platform for the development of IP telephony applications, such as an IP PBX system and a voice gateway, as well as network security systems, such as firewalls and proxies.

Using the available network ports, you can connect external [EBS](#) telephony modules developed by Khomp (sold separately) with any combination of telephony interfaces to create telephony applications, such as a

gateway with E1/T1, GSM, FXS, FXO and VoIP interfaces, or a PBX system with analog and digital telephony interfaces, for example. This architecture allows the EBS to perform all audio processing and telephony signaling requests, with echo cancellation for all calls simultaneously, freeing the EBS Server PRO to process your application and operating system. The ability to add external telephony modules allows the solution to have a low upfront investment and to grow with your business needs.

## Manageable switch

The products in the EBS Server PRO line feature a manageable switch with unique processing features for data traffic management. You can use the KSwitch application developed by Khomp to program the switch for Linux, Windows, and FreeBSD operating systems. The possibilities for configuration allow for the creation of VLANs with the option of marking packages for the network, making it possible, for example, to create visibility between the switch's network ports, among other types of configurations.

## Models

The EBS Server PRO has four different models distributed among the A and B lines; the difference lies on the processing capacity and the number of Ethernet network ports available in the manageable switch, offering the best cost-benefit ratio for each business model to be used.

Model	Processor	Storage	Number of Gigabit Ethernet ports
EBS Server PRO A1301	Intel Core i7	1x SSD Intel 120 GB	13
EBS Server PRO A1302	Intel Core i5	1x SSD Kingston 120 GB	13
EBS Server PRO A1303	Intel Core i3	1x SSD Kingston 120 GB	13
EBS Server PRO B801	Intel Celeron Dual Core	1x SSD Kingston 120 GB	8

## Product images



Front View



Rear view - A130x Model



Rear view - B801 Model



Example of EBS Server PRO assembly with 32 E1/T1 links

## Technical specifications

### EBS Server PRO A130x

#### Server

- Portwell WADE-8015 motherboard
- 4 GB DDR3 RAM Memory (expandable to 16 GB)
- 1x SSD 2.5" 120 GB (supports up to 4x 2.5" SATA disks)

#### Manageable switch

- 13x RJ45 Gigabit Ethernet 10/100/1000 Mbps

#### Optional Items\*

- SSD 120 GB 2.5"
- HD 500 GB 2.5"
- 2 GB or 8 GB DDR3 RAM memory
  - Possible combinations:
    - 8 GB = 8 GB
    - 2 GB + 8 GB = 10 GB
    - 8 GB + 8 GB = 16 GB
- Redundant full range power supply

### EBS Server PRO B801

#### Server

- Mini-ITX IPX1800G2/E2 motherboard
- Integrated Intel Celeron Dual Core J1800 2.41 GHz 64-bit
- 2 GB DDR3 RAM Memory (expandable to 8 GB)
- 1x SSD 2.5" 120 GB (supports up to 2x disks)

#### Manageable switch

- 8x RJ45 Gigabit Ethernet 10/100/1000 Mbps

#### Optional Items\*

- SSD 120 GB 2.5"
- HD 500 GB 2.5"
- 4 GB or 8 GB DDR3 RAM memory
- Redundant full range power supply

### Server hardware - A and B Model

- 1x VGA port
- 2x USB 2.0 ports
- 1x Serial RS-232

### Physical/Environmental

- Power supply (standard):
  - Input: 100–240 VAC, 50/60 Hz
  - Maximum power consumption: 150 W
- Redundant power supply (optional item):
  - Input: 100–240 VAC, 50/60 Hz
  - Maximum power consumption: 120 W
- 2-line x 16-character front display – 65 mm x 16 mm
- Dimensions (W x H x L): 443.4 mm x 44.45 mm x 395 mm
- Operating temperature: 0–50 °C
- Operating humidity: 10–90% non-condensing
- Storage temperature: 0–85 °C
- Storage humidity: 10–90% non-condensing
- Standard 1U module for 19-inch racks

### Compatibility

- Windows
- Linux (kernel version 3.10 or higher)
- FreeBSD
- pfSense

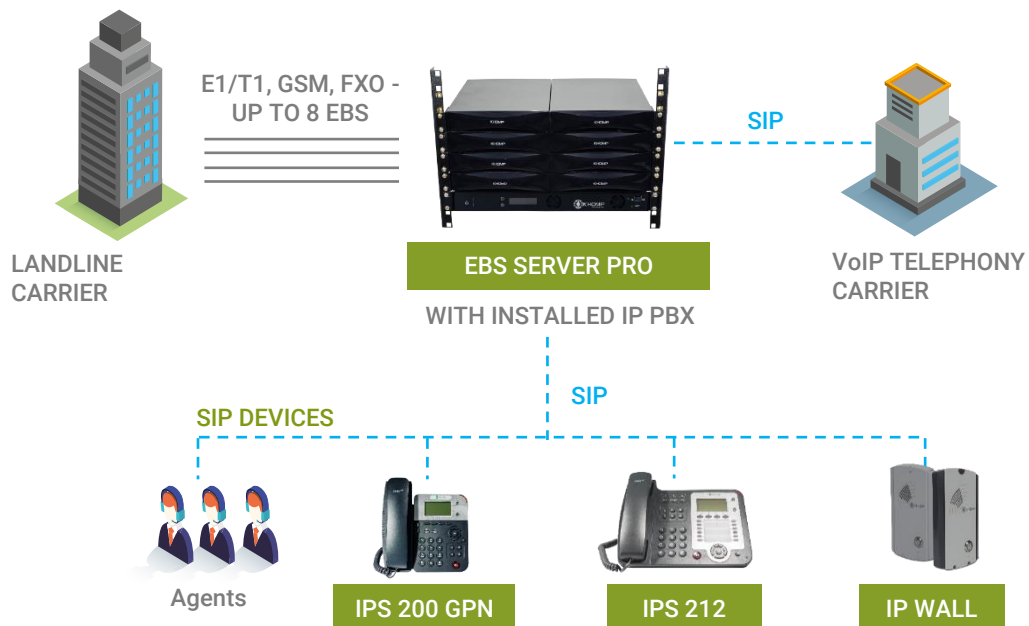
### Warranties and certifications

- Total warranty (legal + Khomp warranty): 1 year
  - Legal warranty: 90 days
  - Khomp warranty: 9 months
- Anatel (Brazilian National Telecommunications Agency) Certification
- ISO 9001 certified industry

\*Optional items at additional cost.

# Application model

EBS Server PRO with installed IP PBX application and external telephony modules



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