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## Getting Started

# Boot Up / Safe Power Down

Each IPitomy IP PBX is equipped with a Boot Up/Safe Power Down momentary button/switch at the front of the chassis. This switch is a primary element of controlling not only the hardware but the Operating System (OS) and PBX software. If it becomes necessary to use this button/switchespecially when powering down it is imperative that you read and understand the functionality of this switch.

### **IMPORTANT:**

**Use of this switch/button is very convenient and VERY specific.**

**Improper use can cause very undesirable results.**

**Use this button/switch by pressing and releasing immediately.**

Button Locations:

Legacy 1100	Legacy1200	PBX+ (1100/1200)	2000/5000
Front of chassis	Front of chassis	Front of chassis	Behind Drive Access Door

The button/switch has three functions:

**(Use 1 & 2 only unless directed to use the 3<sup>rd</sup> function by a technical support representative). Repeatedly turning off the power with a hard boot can damage (corrupt) the data on the hard drive. In some instances, this can void the warranty.**

Use	Condition	Operation
1.	While the PBX is <b>not</b> operating (power cord connected but not yet powered up OR previously, properly powered down)	Press and release the button/switch to start PBX operation

- While the PBX is operating
2. Shut down can take as long as 5 minutes. **Please be patient.**  
While the **PBX is NON-Responsive** and all other methods to regain control of the OS and applications have failed.  
Press AND **Release** the button/switch to initiate the safe power-down sequence. The PBX will shut-down all applications running in the proper sequence ensuring that no damage occurs to the database and applications during shut-down.  
Press AND **Hold** the button/switch to FORCE immediate shut-down.  
This is **NOT recommended** and should be avoided.

## Connecting the System

### Hardware Setup

The IPitomy IP PBX comes assembled and ready to install. The system requires some form of trunking, be it a connection to the PSTN for analog or T1 lines or a SIP trunk. It requires telephones to be connected to the local area network (LAN). Broadband access must be established for VoIP connectivity (allowing remote extensions , branch offices, remote management, and SIP trunks).

### Connecting the Phone Lines

The IPitomy IP PBX is equipped to support analog, digital, gateway or SIP connections. Analog lines or a T1/PRI are connected with internal hardware resources. A gateway connects analog telephone lines by registering itself as a SIP provider over the LAN. SIP providers create a direct connection to the system.

#### INTERNAL ANALOG LINE CARDS

The IPitomy IP PBX uses three basic analog devices for PSTN connectivity.

##### **Digium TDM04B Analog Line Card (4 PSTN line connections)**

This analog line card supporting these connections is already installed and completely configured. Simply connect the phone lines to the RJ11 jacks at the rear of the IPitomy IP PBX and start making calls.

##### **Digium TDM808B Analog Line Card (8 PSTN line connections)**

This analog line card supporting these connections is already installed and completely configured. Simply connect the phone lines to the RJ11 jacks at the rear of the IPitomy IP PBX and start making calls.

**IMPORTANT: The 4 and 8 PSTN line connections are a single pair, one line per jack. It may be necessary to echo tune the system. Please contact an IPitomy Technical Support personnel if you notice an echo on the line.**

## **Digium 2404B 16 and 2406B**

(16 or 24 PSTN line connections) These lines are plugged into an Amphenol connector and need to be terminated in a cross connect, break-out box or patch panel. The Amphenol connector uses a single pair connection to each phone line.

**(Diagram 4)**

## **INTERNAL DIGITAL T1 CARDS**

The IPitomy IP PBX uses two devices for digital connectivity.

### **Digium TE122P T1 Card(a single T1/E1/J1 connection)**

This card supports industry standard telephony and data protocols, including both RBS and Primary Rate ISDN (PRI) protocol families for voice traffic. The card has a default configuration for the system, but this configuration may be adjusted based on preference. Plug the RJ45 connector into the T1 TDM source supplied by the T1 provider.

### **Digium TE205P T1 Card (a dual T1/E1/J1 connection)**

This card supports industry standard telephony and data protocols, including both RBS and Primary Rate ISDN (PRI) protocol families for voice traffic. The card has a default configuration for the system, but this configuration may be adjusted based on preference. Plug the RJ45 connector into the T1 TDM sources supplied by the T1 provider.

**(Diagram 5)**

NOTE: When connecting a T1/PRI to the PBX, it is advised to use individually shielded pair T1 Cabling, not Cat-5 or Cat-6. Here is a great link explaining exactly why you want to avoid category cabling.

<https://www.quabbin.com/tech-briefs/why-5e-cable-unsuitable-t1-extensions>

## **Connecting Using an External Gateway**

Gateways connect legacy phone equipment (PBXs, ACDs, voicemail systems, etc.) to modern VoIP systems and services. IPitomy supports many different communications protocols from both the modern world of VoIP and from the legacy PSTN. This makes it a powerful tool for building gateways and protocol converters.

PSTN lines can be connected to a Gateway device. The gateway device is connected to the LAN. The Gateway is then registered as a SIP provider in the system.

## Connecting to a LAN

In order to be able to connect all of the devices (PCs, Phones, Gateways, etc) to their Local Area Network (LAN) you will most likely need to install at least one Switch.

By default, the PBX will have a 192.168.1.249 IP address. To access the PBX you will need a PC on a 192.168.1.x subnet. Open the web browser and type 192.168.1.249/ippbx to get to a login screen.

If you are installing the PBX on a network other than 192.166.1.x, you can set your PC statically to that subnet, log into the PBX and make changes to its network settings under System=>Networking. Alternatively, you could connect a monitor and keyboard and press Ctrl-Alt-F7 to access a page to define the network settings for the PBX. When all values are set to match the network, be sure to press S to save and update.

Now you will have a PBX you can access on the network which it is to be installed upon.

## Connecting Using SIP Providers

Once connected to the LAN, the LAN's broadband connection provides a pathway for SIP VoIP Providers. Use the SIP Provider pages to setup a connection.

## Connecting Telephones

The following diagrams indicate the port locations on the IP120 and IP1500.

## PBX Quick Start Guide

[PBX Quick Start](#)