officeBOX M1000

Installation guide

Introduction

Installation guide takes you through the process of setting up your officeBOX appliance. This is a simple task that does not require much time and after it is completed you will be able to use full potential of your officeBOX appliance.

Requirements

Requirements for the usage of officeBOX are:

10/100Base TCP/IP – based local area network (LAN)

One of the following web browsers:

- Firefox
- Google Chrome
- Safari
- Internet explorer 9+

Network parameters which include officeBOX IP address, the subnet mask of your network and a gateway or router address if communicating with other networks can be obtained by:

- Obtaining IP address automatically from the DHCP server
- Setting up a fixed IP on LAN port

Important Safeguards

For your safety, please read all the instructions regarding officeBOX appliance.

a. Safety precautions

For your protection when setting up your equipment, observe:

- All cautions and instructions marked on the equipment should be followed
- Make sure that your power source voltage and frequency matches the one required by your equipment
- Never insert objects through openings on the equipment. This can be dangerous and can damage your equipment.

b. Power source and power cords

Make sure that your power source voltage and frequency matches the one required by your equipment.

WARNING: OfficeBOX is designed to work with the single-phase power systems. To reduce the risk of electrical shock, do not plug the equipment into any other power system. If you are not sure what kind of power system your facility has, contact the facility manager or qualified electrician.

WARNING: Your officeBOX power supply is shipped with a grounded type power cord, so to reduce the risk of electrical shock, always plug the cord into a grounded power outlet.

WARNING: Not all power adapters will fit your officeBOX power supply, so usage of power adapters other than the one supplied with your box is not recommended.

c. Electrical Shock

To reduce the risk of electrical shock, do not disassemble or tamper in any way with the power supply. Opening the power supply may expose you to dangerous voltage, and incorrect reassembly will damage your equipment

d. Top cover

In order to add cards or internal storage, you will have to remove the top cover. Make sure to place the top cover back before turning on the appliance. officeBOX should not be in function without its top cover in place, as this can lead to equipment damage or injury.

e. Equipment modifications

Do not make any hardware modifications to the equipment. Bicom Systems is not responsible for any damage or injury as a result of the equipment modification.

f. Ventilation

Although officeBOX does not use active cooling, it is not overheating at all. Still, good ventilation space is required for proper work of the appliance. Openings on the appliance must not be covered or blocked and should be kept free from the dust.

g. Placement

Openings on the top cover are meant as a ventilation of any small amount of excess heat that is not transferred to the side aluminium cooler, and they should be kept unobstructed. Make sure that appliance is stored in a well vented place and no objects should be placed on top of it.

CAUTION: Do not put the appliance near a radiator or any other heat emitting device. Failing to do so can cause your appliance to overheat and malfunction.

i. Regulations and information

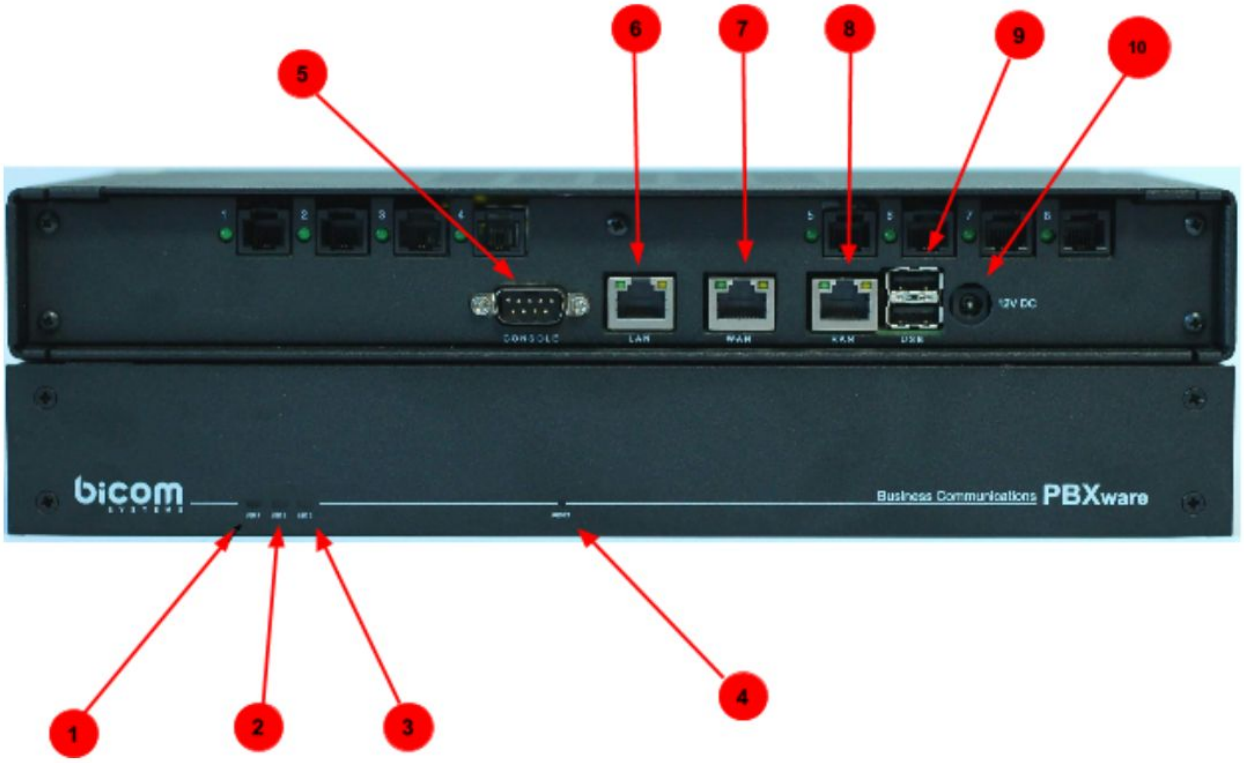
This device complies with the CE and FCC Rules and Regulations which can be obtained from the supplier.

Overview

Installation of the officeBOX appliance is done in three steps:

- Installation, explains deployment process and physical connection to the network and power source.
- Software Setup, explains the process of setting up the appliance in a network environment using the web-based Setup Wizard

Front/back view of the officeBOX™



1. LED 1 - Power LED
2. LED 2 - System Status
3. LED 3 - Voice Status

4. Factory Reset switch
5. Console/Serial port
6. LAN (Local Area Network) port
7. MAN (Management Area Network) port
8. RAN (Replication Area Network) port
9. USB ports
10. Power connector 12V DC

NOTE: As OfficeBOX M1000 will come with PCI card(s) already installed for you and back plate of an enclosure will be specifically designed to fit your selection of hardware, your OfficeBOX M1000 back side view of might look somewhat different from the one shown in picture.

Installation

When it comes to installation of OfficeBOX M1000 we did all we could to simplify this process for end users and make M1000 as much “Plug ‘n’ Play as possible so all you have to do is to

connect it to the network with CAT5 ethernet cable(s), connect your PCI cards to telephony network and then connect the box to power outlet with attached adapter,

NOTE: As M1000 does not have Power button, you should first connect all the necessary cables (network/telephony/console) before you plug it in a power outlet (110-240 V; 50-60Hz) using attached adapter.

Connect appliance to the network by plugging one end of the Cat 5 ethernet cable to the LAN (Local Area Network) port on officeBOX. Plug the other end of the cable to an existing network socket. Depending on your setup, you also have MAN (Management Area Network) and RAN (Replication Area Network) ports at your disposal.

Depending on PCI card(s) you selected with purchase of OfficeBOX M1000, you will have to connect telephony cables accordingly.

Although, M1000 should come with preinstalled Bicom Systems software and you should be able to reach the system once it is online on your network, console port is also available in case you prefer direct connection for monitoring or to access the system through the console connection.

Once you connect all the necessary cables connect the box to the power source.

Software Setup

After officeBOX has been placed, it is time to set it up. As already mentioned there are three network adapters LAN, MAN and RAN ports.

Default settings for network cards:

- LAN port - DHCP (eth0)
- MAN port - DHCP with fallback IP to 192.168.100.1/24 (eth1)
- RAN port - not configured (eth2)

OfficeBOX will come with preinstalled PBXware and LAN port will be set up to get the IP address from DHCP server automatically. However, on larger networks it might be somewhat complicated to find the IP assigned to OfficeBOX. To avoid this issue, you can connect your PC to a MAN port of the OfficeBOX. To do this connect one end of the cable into a network port on your computer and plug the other end into a MAN port on OfficeBOX.

In order to access PBXware on IP address 192.168.100.1/24 you will have to set up your network card IP to be in same IP range, for example, you can use IP address 192.168.100.2 with netmask 255.255.255.0

Other network settings can be left empty.

Once you are connected to this network, connect to PBXware through ssh. Linux and Mac OS X users can simply open terminal and type command:

```
ssh root@192.168.100.1 -p2020
```

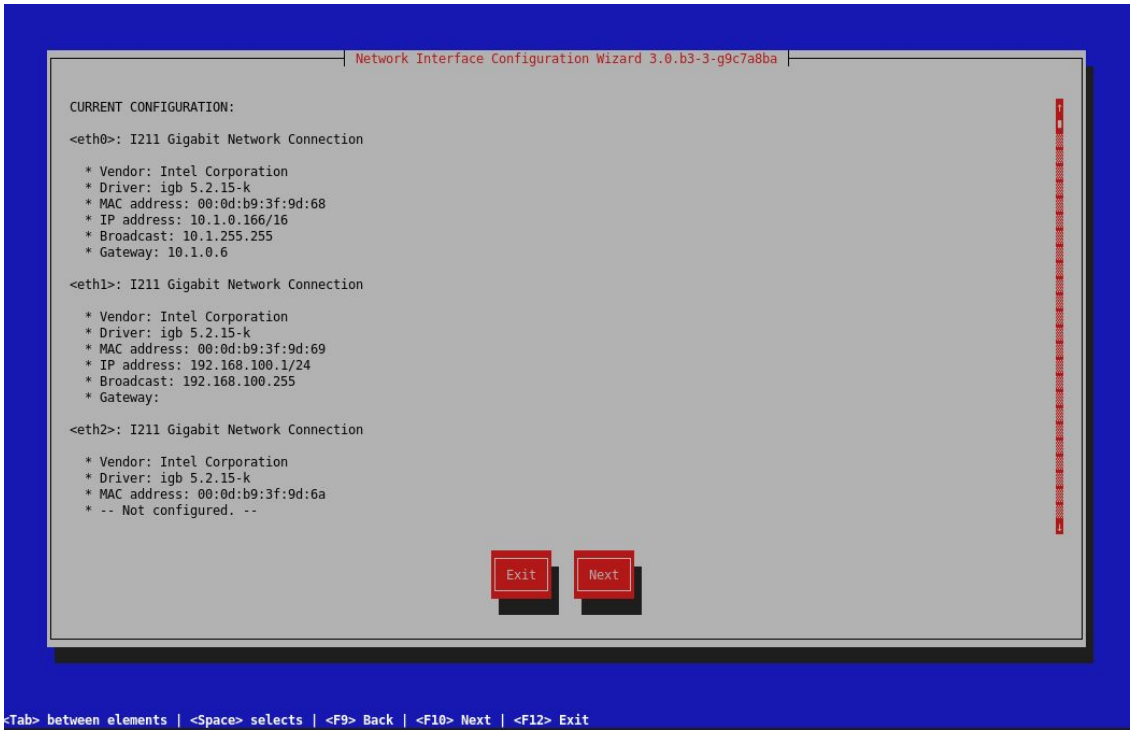
This will initiate an ssh connection to PBXware and if everything is set correctly you should be prompted for password. Default PBXware password is “pbxware”.

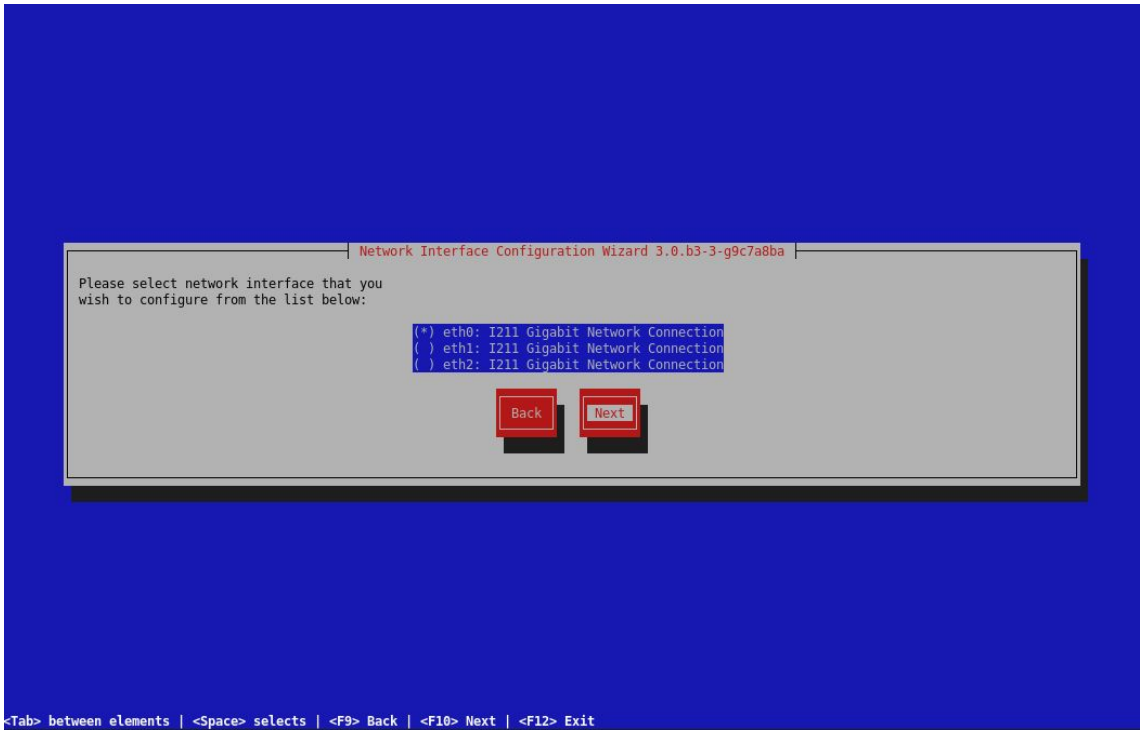
Once you are logged in start network wizard using command:

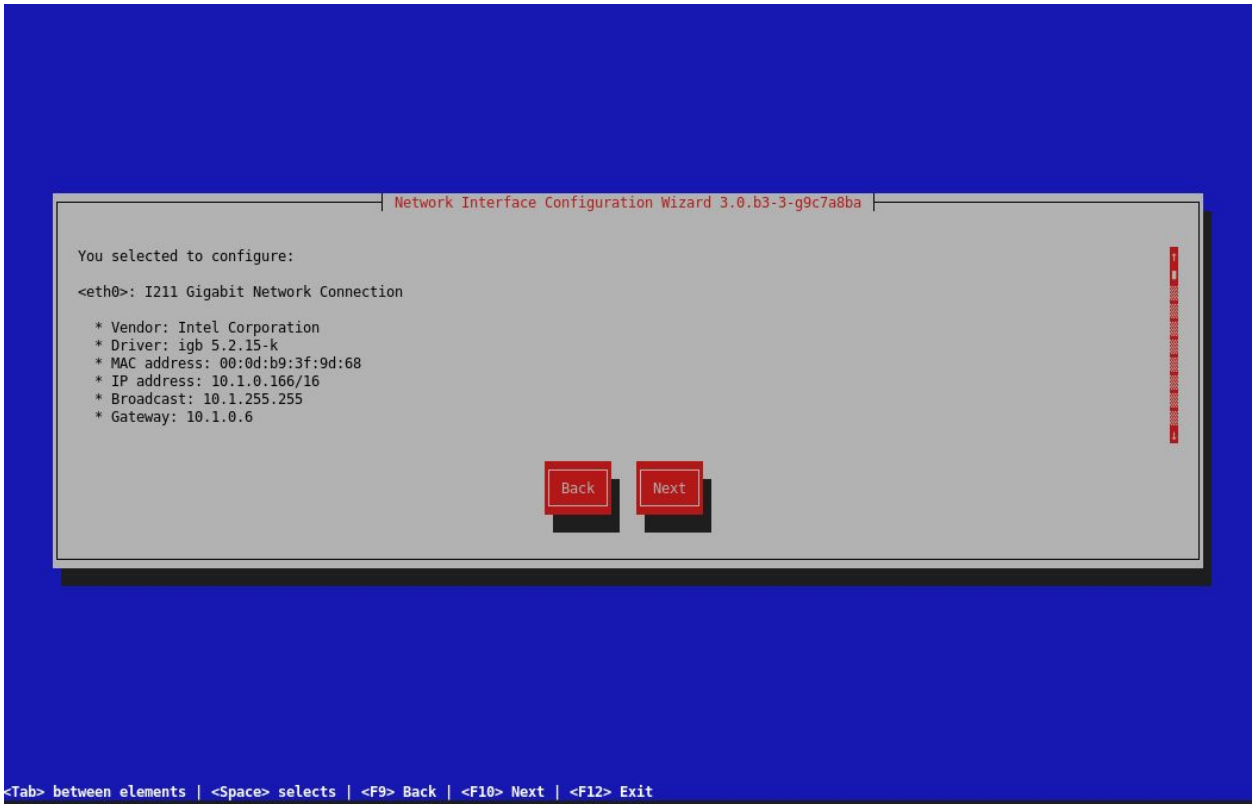
```
netsetup
```

This will initiate a Network Interface Configuration Wizard that will allow you to configure your network interfaces.

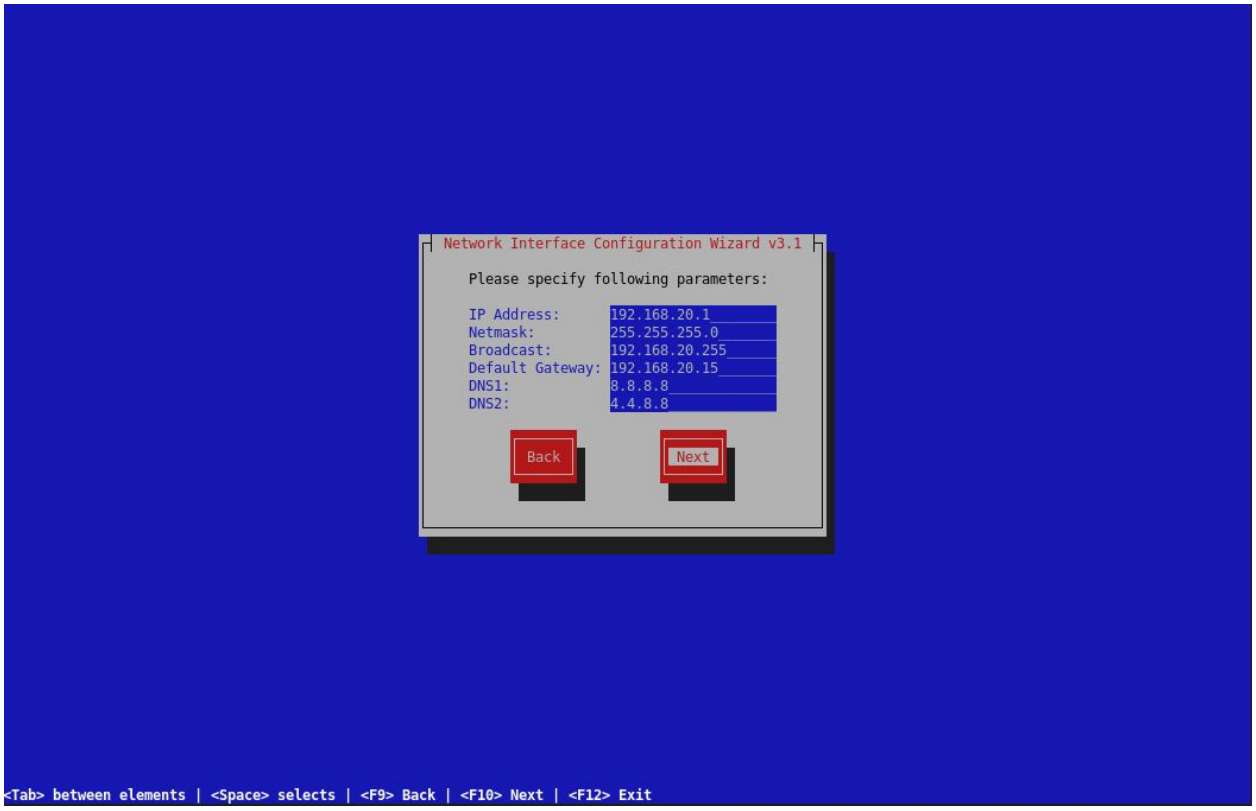
Select interface you would like to configure and simply go through configuration wizard, selecting preferred settings. To set up LAN (eth0) interface to use static IP, select it from the list and click
Next. Select option **Specify IP address manually** and in next step enter an IP address you would like to use on LAN interface, along with matching netmask, broadcast, default gateway and DNS1 and DNS2 servers.


Network Interface Configuration Wizard 3.0.b3-3-g9c7a8ba
CURRENT CONFIGURATION:
<eth0>: I211 Gigabit Network Connection
* Vendor: Intel Corporation
* Driver: igb 5.2.15-k
* MAC address: 00:0d:b9:3f:9d:68
* IP address: 10.1.0.166/16
* Broadcast: 10.1.255.255
* Gateway: 10.1.0.6
<eth1>: I211 Gigabit Network Connection
* Vendor: Intel Corporation
* Driver: igb 5.2.15-k
* MAC address: 00:0d:b9:3f:9d:69
* IP address: 192.168.100.1/24
* Broadcast: 192.168.100.255
* Gateway:
<eth2>: I211 Gigabit Network Connection
* Vendor: Intel Corporation
* Driver: igb 5.2.15-k
* MAC address: 00:0d:b9:3f:9d:6a
* -- Not configured. --
Exit
Next
<Tab> between elements | <Space> selects | <F9> Back | <F10> Next | <F12> Exit


Network Interface Configuration Wizard 3.0.b3-3-g9c7a8ba
Please select network interface that you
wish to configure from the list below:
(*) eth0: I211 Gigabit Network Connection
( ) eth1: I211 Gigabit Network Connection
( ) eth2: I211 Gigabit Network Connection
Back
Next
<Tab> between elements | <Space> selects | <F9> Back | <F10> Next | <F12> Exit


Network Interface Configuration Wizard 3.0.b3-3-g9c7a8ba
You selected to configure:
<eth0>: I211 Gigabit Network Connection
* Vendor: Intel Corporation
* Driver: igb 5.2.15-k
* MAC address: 00:0d:b9:3f:9d:68
* IP address: 10.1.0.166/16
* Broadcast: 10.1.255.255
* Gateway: 10.1.0.6
Back
Next
<Tab> between elements | <Space> selects | <F9> Back | <F10> Next | <F12> Exit


Network Interface Configuration Wizard 3.0.b3-3-g9c7a8ba
You can use DHCP to automaticaly configure a network
interface or you can specify an IP and related
settings manually. Choose one option:
( ) Use DHCP to auto-detect my network settings
(*) Specify an IP address manually
Back
Next
<Tab> between elements | <Space> selects | <F9> Back | <F10> Next | <F12> Exit



Once you enter your network settings click Next you will be asked to provide rules for this interface. Unless you have some specific rules you would like to use simply click next without entering any values.

Once you complete network configuration wizard you will be able to reach your PBXware from other computers on the network. To access PBXware Setup Wizard in order to perform initial configuration enter your PBXware IP address followed by port 81 in your browser address bar, for example:

https://192.168.20.1:81

For additional information on how to complete PBXware Setup Wizard please check our Setup Wizard user guide

http://wiki.bicomsystems.com/PBXware_4.0_Startup_User_Guide_Setup_Wizard