

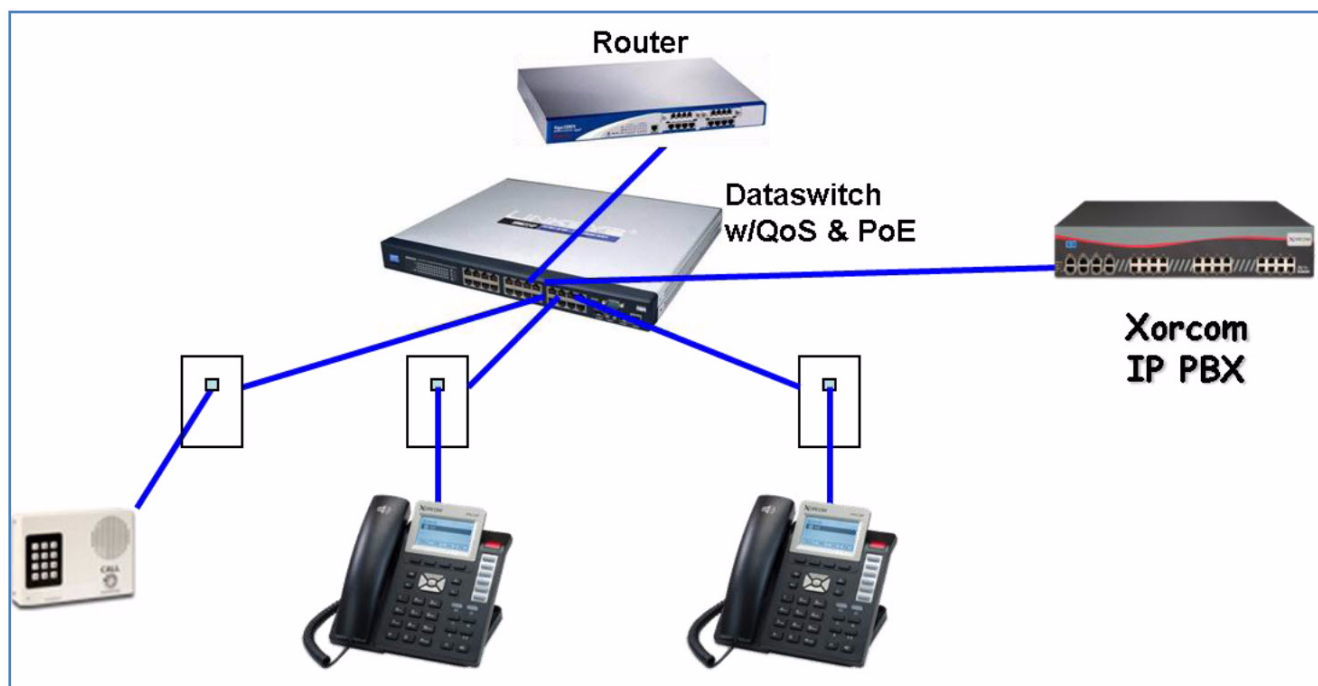


*SIP-enabled IP Indoor Keypad
Intercom with Xorcom
Complete PBX Setup Guide*

1.0 Setup Diagram

Figure 1 is a setup diagram for a single SIP-enabled IP Indoor Keypad Intercom configuration. In this configuration, the SIP-enabled IP Indoor Keypad Intercom acts as a standalone SIP telephony device.

Figure 1. Setup Diagram



2.0 Host IP PBX Environment

Table 1. Host Environment Details

	Description
Hardware Type	XR1000; XR/XE2000; XR/XE3000
Hardware Version	All versions of above listed models
Software Type	Xorcom CompletePBX
Software Version	v1 and v2

3.0 Test Setup Equipment

Table 2. Test Setup Equipment

Equipment	Model	Version
SIP-enabled IP Indoor Keypad Intercom		
Notes:		
IP (SIP) Phone		
Notes:		
PoE Switch		
Notes:		
Notes:		
Notes:		
Notes:		

4.0 Setup Procedure

4.1 CyberData Device Configuration

To set up the Xorcom CompletePBX for the SIP-enabled IP Indoor Keypad Intercom, complete the following section.

1. Configure the Intercom with the following settings:

- IP addressing: DHCP
- IP address (provided by the DHCP server): 10.0.0.126

Note Use the **ARP** command to discover the IP address of the intercom box.

Note If you are not familiar with this command, you may want to set the IP address to static and assign an IP address to the intercom door box that is not conflicting with any other devices on your network.

- Subnet Mask: 255.255.255.0
 - Username/Password: admin/admin
2. Connect the indoor intercom to an 802.3af (PoE) capable switch. If you do have an 802.3af capable switch, then you will need a PoE injector from CyberData (P/N 010867A).
 3. Connect your computer to the same switch as the indoor intercom (or connect "directly" if using a PoE injector) and configure your TCP/IP settings as follows:
 - IP address: 10.0.0.126
 - subnet mask: 255.255.255.0
 - Gateway: 10.0.0.1
 4. Open a web browser to **http://10.0.0.126** and you will see a **Home** page.

5. Click on the **Networking** navigation button to go to the **Networking Configuration** page (Figure 2).

Figure 2. Networking Configuration Page

CyberData Keypad Intercom

Home **Device Config** **Networking** **SIP Config** **Button Config** **Nightringer** **Sensor Config** **Multicast Config** **Audio Config** **Event Config** **Autoprovisioning** **Update Firmware**

Network Configuration

Stored Network Settings

IP Addressing: ☐ Static ☒ DHCP

IP Address: 10.10.10.10

Subnet Mask: 255.0.0.0

Default Gateway: 10.0.0.1

DNS Server 1: 10.0.0.1

DNS Server 2: 10.0.0.1

Current Network Settings

IP Address: 10.0.0.126

Subnet Mask: 255.255.255.0

Default Gateway: 10.0.0.1

DNS Server 1: 8.8.8.8

DNS Server 2:

Networking navigation button

7. Configure the device network settings with either **Static** or **DHCP** selected in the **Stored Network Settings** section. See [Figure 3](#).

Figure 3. Networking Configuration Page

Network Configuration

Stored Network Settings

IP Addressing: ☒ Static ☐ DHCP

IP Address: 10.10.10.10

Subnet Mask: 255.0.0.0

Default Gateway: 10.0.0.1

DNS Server 1: 10.0.0.1

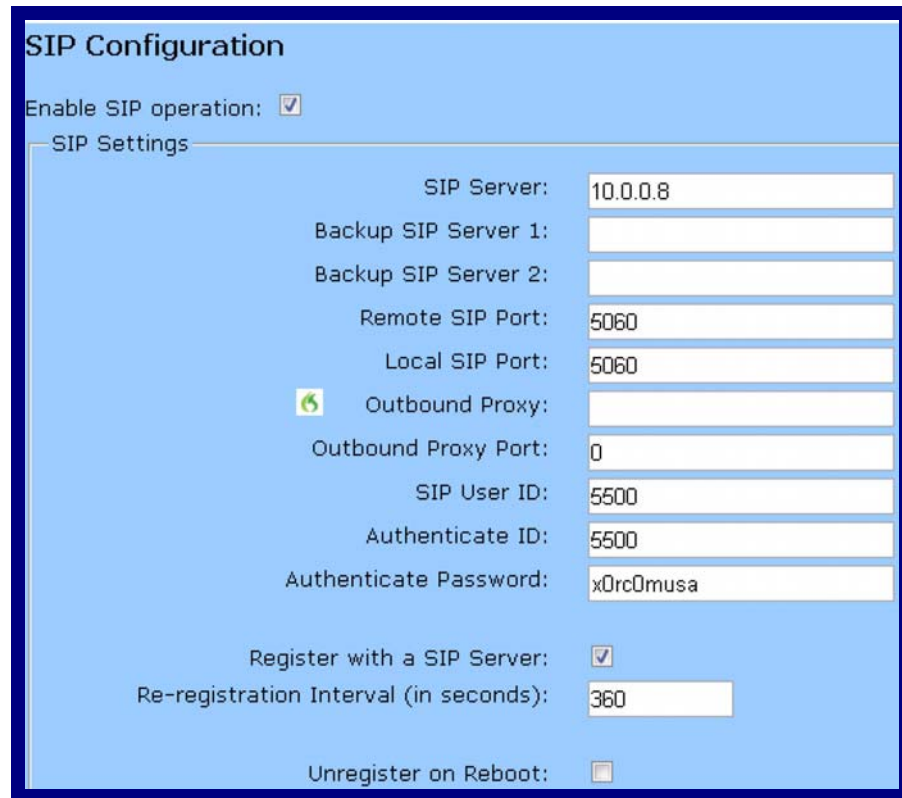
DNS Server 2: 10.0.0.1

Static DHCP

6. If you select **Static**, make sure that the IP subnet matches the LAN side of the DHCP server and that you choose an IP address outside of the DHCP range.
7. When finished, click **Save**. After the device reboots, select the **SIP Config** navigation button.

8. Configure the SIP settings as shown in [Figure 4](#) and [Figure 5](#).

Figure 4. SIP Configuration Page



SIP Configuration

Enable SIP operation: ☒

SIP Settings


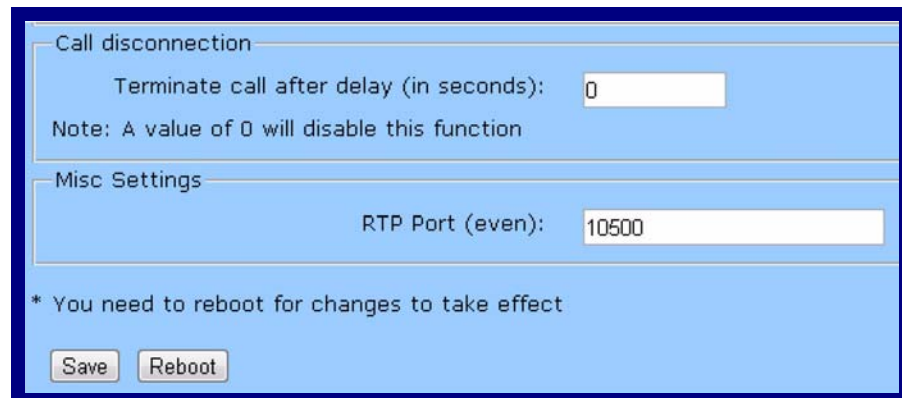
SIP Server:	<input type="text" value="10.0.0.8"/>
Backup SIP Server 1:	<input type="text"/>
Backup SIP Server 2:	<input type="text"/>
Remote SIP Port:	<input type="text" value="5060"/>
Local SIP Port:	<input type="text" value="5060"/>
 Outbound Proxy:	<input type="text"/>
Outbound Proxy Port:	<input type="text" value="0"/>
SIP User ID:	<input type="text" value="5500"/>
Authenticate ID:	<input type="text" value="5500"/>
Authenticate Password:	<input type="text" value="x0rc0musa"/>
Register with a SIP Server:	<input checked="" type="checkbox"/>
Re-registration Interval (in seconds):	<input type="text" value="360"/>
Unregister on Reboot:	<input type="checkbox"/>

Figure 5. SIP Configuration Page



Call disconnection

Terminate call after delay (in seconds):

Note: A value of 0 will disable this function

Misc Settings

RTP Port (even):

* You need to reboot for changes to take effect

9. Once you are done with your settings, click **Save**.
10. Congratulations! You have finished setting up your CyberData device for use with the Xorcom CompletePBX. For help with advanced product configuration settings, please contact CyberData (www.CyberData.net)

4.2 Review of the Xorcom CompletePBX Setup

1. To ensure proper configuration of the CyberData device within Xorcom CompletePBX, please review the screenshots shown in [Figure 6](#) through [Figure 9](#).

Figure 6. Correct Configuration Within Xorcom CompletePBX

Extension: 5500

Delete Extension 5500

Add Follow Me Settings

- Edit Extension

Display Name Front Door

CID Num Alias

SIP Alias

- Extension Options

Outbound CID

Ring Time Default

Call Forward Ring Time Default

Outbound Concurrency Limit 2

Call Waiting Disable

Internal Auto Answer Disable

Call Screening Disable

Pinless Dialing Disable

Emergency CID

Queue State Detection Use State

- Assigned DID/CID

DID Description

Add Inbound DID

Add Inbound CID

Figure 7. Correct Configuration Within Xorcom CompletePBX

Default Page Group Exclude ▼

- Device Options

This device uses sip technology.

secret	x0rc0musa
dtmfmode	RFC 2833 ▼
canreinvite	No ▼
host	dynamic
trustpid	Yes ▼
sendrpid	No ▼
type	friend ▼
nat	No - RFC3581 ▼
port	5060
qualify	yes
qualifyfreq	60
transport	UDP Only ▼
encryption	No ▼
callgroup	
pickupgroup	
disallow	
allow	
dial	SIP/5500
accountcode	
mailbox	5500@device
vmexten	
deny	0.0.0.0/0.0.0.0
permit	10.0.0.0/255.255.255.0
Custom Context	ALLOW ALL (Default) ▼

Figure 8. Correct Configuration Within Xorcom CompletePBX

Dictation Service	Disabled
Dictation Format	Ogg Vorbis
Email Address	
- Language	
<hr/>	
Language Code	
- Recording Options	
<hr/>	
Inbound External Calls	Always Don't Care Never
Outbound External Calls	Always Don't Care Never
Inbound Internal Calls	Always Don't Care Never
Outbound Internal Calls	Always Don't Care Never
Supress Viewing Recordings in User Interface	Always Don't Care Never
On Demand Recording	Disable Enable
Record Priority Policy	0
- Voicemail	
<hr/>	
Status	Disabled
Voicemail Password	
Email Address	
Pager Email Address	
Email Attachment	yes no
Play CID	yes no
Play Envelope	yes no
Delete Voicemail	yes no
VM Options	
VM Context	default

Figure 9. Correct Configuration Within Xorcom CompletePBX

VmX Locator™

Disabled

Use When:

☐ unavailable

☐ busy

Voicemail Instructions:

☒ Standard Voicemail prompts.

Press 0:

☒ Go To Operator

Press 1:

Press 2:

- End Point Manager

Note: This might reboot the phone if it's already registered to Asterisk

MAC Address

Brand

Model

Line

Template

- Optional Destinations

No Answer

CID Prefix

Busy

CID Prefix

Not Reachable

CID Prefix

Unavail Voicemail if Enabled

Busy Voicemail if Enabled

Unavail Voicemail if Enabled

Submit

5.0 In Summary

If you have any questions regarding the setup of any CyberData paging devices with the Xorcom CompletePBX, please contact our technical support at 866-967-2661 and press “3” on the IVR.

We have actually performed interoperability with several CyberData devices, including paging horns, speakers, intercom devices and notification endpoints. We have found them to be extremely easy to integrate with our solution and the support from CyberData has been excellent.

We strongly recommend the CyberData line of VoIP paging products for all of your client’s needs. Should you have any questions please do not hesitate in contacting Xorcom sales directly at 866-967-2661 and press “1” on the IVR for sales.