



Using Linphone with Comrex ACCESS and BRIC-Link

Introduction

Linphone is a free SIP calling app available for iPhone, Android, and other platforms. Linphone supports the **Opus** codec, and is a great way to connect to these products from smartphones.

Opus is supported in ACCESS and BRIC-Link 3.0 firmware and higher.

For those users that have ACCESS or BRIC-Link on a local LAN, you should enable the "**SIP ALG**" function on your router or firewall. If this is not possible, forward these ports to your codec: **UDP 5060, UDP 6014**, and **UDP 6015**. If you are unsure of how to do so, please contact your IT administrator, or **techies@comrex.com**, for suggestions.

Setting up the ACCESS and BRIC-Link

In order to connect via SIP, you must make a few changes on the ACCESS web configuration page. This process is outlined here:

connections webia star	usues crosscock	Audio Metering	Promes	system settings
STEM SETTING	SETTING ADJUSTMEN	a		
EBU 3326/SIP Settings	Accent incor	ning connections		
Accept incoming connections	Listen for and aut	omatically answer incoming calls.		
Incoming Connection Profile		,		
IP Port				
🖺 User Agent Blacklist	and the second se			
VIP-QC Password	CURRENT NOC	chabled		
RTP IP Port	DEFAULT NOT	nabled		
Public IP Override				
🛅 Use STUN Server	-			
Use SIP Proxy	Enabled			
SIP Proxy Keepalive				
SIP Proxy Address				
SIP Domain				
SIP Username				
SIP Auth Username				
10	v			

- Log into the Web Interface
- Click on System Settings Tab
- Check Show Advanced
 Options checkbox

- Expand *EBU 3266/SIP Settings
- Accept Incoming Connections: Set to Enabled

*If running with firmware below 4.0, this will be called **N/ACIP SIP Settings**.

Linphone for Android

- 1) Download and install Linphone from the Play Store
- 2) Open Linphone
- You will see the main welcome screen with a warning on top "No account configured"

Ignore this, since an account is not needed to connect to an IP address.

4) Press the top right dial menu or the back button at the bottom of the screen.





Special Note: Depending on your Android firmware, LinPhone may ask for additional permissions once you reach the dialing screen. You can deny the following permission requests:

Access to your contacts

Make and manage phone calls

Access photos, media, and files on your device

 Select the top left options menu and select Settings.



This Settings menu will appear.

AT&T		🕩 マ 📶 📋 1:41
No account configured		
	SETTINGS	000
SIP ACCOUNTS	;	
PREFERENCES		
Audio		
Video		
Call		
Chat		
Network		
Advanced		
\triangleleft	0	

6) Select Video and deselect Enable Video

VIDEO	
Enable Video	\bigcirc
Initiate video calls Always send video requests	
Accept incoming video reque Always accept video requests	es
Video preset default	

Press "Back"

Choose the Audio option

7) Deselect every codec option except Opus and then select Codec bitrate limit



Change to 64kbps

Press "Back"



8) Choose Network and deselect Allow IPv6



Press "Back"

9) Choose Advanced and deselect Background mode and Start at boot time



- Press "**Back**"<u>twice</u> to return to the dialing screen
- Put Comrex On The Line.

10) Tap the area of the dialing screen that says "Enter a number or an address"

This will open the keyboard



11) Enter the address of your ACCESS or BRIC-Link like this:

sip:user@<IP_address> e.g. sip:user@74.94.151.151

You may also store this as a contact and dial from your contact list

12) Press the "phone" icon to make a call

Special Note: Depending on your Android firmware, LinPhone may ask for permission to record audio. You MUST select allow or it will not transmit audio.



Linphone for iPhone

- 1) Download and install Linphone from the App Store
- 2) Open Linphone
- 3) You will see the main welcome screen with a warning on top "No account configured"

Ignore this, since an account is not needed to connect to an IP address.

Back to App Store 11:38 AM On account configured	*
ASSISTANT	000
WELCOME	- 1
This assistant will help you to use a SIP ad for your calls.	ccount
CREATE ACCOUNT	
USE LINPHONE ACCOUNT	
USE SIP ACCOUNT	
FETCH REMOTE CONFIGURATION	ON
	- 1
	_

4) Press the top left menu to open the options menu and select **Settings**.

Put Comrex On The Line.

.



5) Under the Settings menu, turn **Enable** video to OFF then choose Audio

SIP ACCOUNTS Rt SETTINGS	ettings un assistant	000
SIP ACCOUNTS	un assistant	
RU	un assistant	
SETTINGS		
		\frown
Enable video	(OFF
Audio		>
Call		>
Network		>
Advanced		>

6) Deselect every codec option except Opus

Back to App Store	11:41 AM	* 💷	
No account configured			
\leftarrow	Audio		
Speex 16kHz		OFF	
Speex 8kHz		OFF	
Opus 48kHz	(ON	
Silk 24kHz		OFF	
Silk 16kHz		OFF	
AAC-ELD 16kł	Hz	OFF	
AAC-ELD 22kl	Ηz	OFF	
AAC-ELD 32k	Hz	OFF	
AAC-ELD 44k	Hz	OFF	
AAC-ELD 48k	Hz	OFF	
G.722		OFF	

Press "Back"



6) Scroll to the bottom of this list and choose Codec bitrate limit

Select 64 kb/s

•••••• Verizon 🗟	4:14 PM bunt configured	* 💶 •
\leftarrow	Audio	
10 kbits/s		
15 kbits/s		
20 kbits/s 36 kbits/s		
64 kbits/s	•	~
128 kbits/s		

- 7) Press the "**Back**" arrow and then select Advanced
- 8) Change Start at boot to OFF



9) Go to the dialing screen by pressing the large dialpad icon in the top right



10) Tap the area of the dialing screen that says "Enter a number or an address"

This will open the keyboard



11) Enter the address of your ACCESS or BRIC-Link like this:

sip:user@<IP_address>

e.g. sip:user@74.94.151.151

You may also store this as a contact and dial from your contact list

12) Press "Join" to make a call

