Introduction

Thank you for purchasing a Digi Smart Energy Developer Kit. The purpose of this kit is to teach developers about Digi's ZigBee Smart Energy Framework and iDigi development tools and make it easy for a developer to use those tools to create custom smart energy applications.

When you are finished with this guide, your setup will look like this:

[Include network diagram showing all the components: X2e, AP, SafePlug, and Smartlee app on a phone]

You will refer to two documents as you use this kit:

Quick Start Guide (this document): Guides you through the initial kit setup.

Getting Started Guide: A longer document available online that teaches you more about the underlying technology. The Getting Started Guide also includes an in-depth troubleshooting section.

Refer to [URL TBD] for more in-depth information about software development and commercialization with this technology.

Verify Contents

ConnectPort X2e for Smart Energy



SafePlug



Ethernet Cable

Power Supply



Preparation for the Online Installation Process

Before you move onto the next steps, it would be beneficial to record the following information, which can be found on the devices:

• ConnectPort X2e (on back of device)



- SafePlug
 - MAC Address/Serial Number: ______
 - Installation Code: _____

---Picture of SafePlug that shows where the Installation Code is---

Hardware Set-Up

1. Ethernet Setup:

- a. Connect the Ethernet cable
- b. Connect the power supply
- c. Startup Sequence After plugging in the device the Power and Network LEDs will gradually turn solid green.



3. Wireless Setup:

- a. Connect the power supply
- b. Startup Sequence After connecting the power supply, the Power LED will be solid green, the ZigBee LED will be blinking green, and the network LED (WAN) will be blinking orange.
- c. Note: If the ConnectPort X2e has already been configured to connect to an access point, it will need to be set back to factory defaults to use the following procedure. See the troubleshooting section below to return the gateway back to its initial state.

- d. Enable Access Point mode on your device by pressing the button.
- e. Configure the Wi-Fi interface of your computer to connect to ConnectPort X2e gateway's access point. The name (SSID) of the access point will be cpx2e-se-xxxxxxxx, where xxxxxxxx is the serial number of the gateway.
- f. Go to your web browser, and enter the URL of the gateway: http://192.168.100.1
- g. Navigate to **Configuration > Wireless Wizard**. Follow the steps in the wizard to configure your device.
- h. Once your configuration is complete, your device will connect to your home access point and attempt to connect to Smartlee. You can track its progress by observing the network LED behavior. Once the connection to your access point and gateway is connected to Smartlee, all the LED's will be solid green.



4. Plug in the SafePlug

---Picture of SafePlug---

5. Look at the SafePlug and find the LED. If the LED is green, then the SafePlug is working and you are ready to move on. If it's flashing amber, then there is a problem with the SafePlug. Go to troubleshooting for more information.

Connecting to Smartlee

Adding Your Gateway

- 1. Go to <u>www.livesmartlee.com</u> and create an account.
- 2. On the Discover Gateway page, enter the MAC address that you previously

recorded.

Find My Gateway or Enter Your Gateway ID : 00409D		MAC Addr: 00409D 000000 MAC SN: (5) W0000000
Time Zone:		
(GWT -6.00) Central Standard Time (America/Chicago)	Previous Next O	

You can also use the "Find My Gateway" feature to have Smartlee find your Gateway on your network.

Adding Your SafePlug

- 1. You will be automatically taken to the page to add your SafePlug.
- 2. Select your device from the list (find your device based on the MAC address you recorded earlier).

Total devices found: 4	Gateway ID	00409D 45EBB4		
Select	<u>Device</u>		<u>State</u>	Notes
	00:24:46:00:00:06:71:1C		Inactive	
	00:13:A2:00:40:5C:0F:F9		Active	
	00:13:A2:00:40:6B:8E:95		Inactive	
	00:13:A2:00:40:6B:93:69		Discovered	
		Previous Next		

5. Get the install code you previously recorded and put it in the "Install Code" field and click next.

Devices to in	stall: 1	Gateway ID 00409D 45EBB4		
Select	<u>Device</u>	Install Code	<u>State</u>	Notes
	00:13:A2:00:40:6B:93:69		Discovered	

 Once you have completed these steps, you should be able to log into the Smartlee app on your smartphone. You can get the Smartlee app for free at the iTunes store or through Google Play [optional you can delete the screenshot below]





Testing Your Network

If you have a smartphone, go to the iTunes store or Google Play to download the Smartlee app. Once you have installed it, log into your account on your phone. You should be able to select your SafePlug and turn it on and off. If this works, then you have successfully created your network!

Troubleshooting

The Smartlee website does not recognize my gateway

Ensure that the ConnectPort X2e Coordinator is plugged in and connected, see steps below.

Ensure that the gateway is connected to your iDigi account.



I can't see my SafePlug in my Smartlee account

Ensure that the SafePlug is not out of range of gateway. SafePlug may be paired with another device. Unpair the SafePlug through the Smartlee interface or by swiping the correct magnetic key over the SafePlug.

Installation for iPhone/Android application is failing

Please refer to your manufacturer's website for help.

I can't control my SafePlug with my Smartlee account

Check to see if the status LEDs are operating properly on your Devices:

ConnectPort X2e:

Power

Status	Description	Next Step
Off	No power	Unplug the ConnectPort X2 and plug it back in to an outlet. If LED is not blinking call Digi technical support.
Solid green	Device is powered	No further action required

ZigBee

Status	Description	Next Step
Off	Radio disabled	
Blinking green (slow)	Searching of other ZigBee devices on the network	
Blinking green (fast)	Establishing a Smart Energy network	
Solid green	Connected to a Smart Energy network	

Network

Status	Description	Next Step
Off	Powered OFF	
Blinking yellow (slow)	Powered ON, no Ethernet/WIFI link	
Blinking yellow (fast)	Ethernet/WIFI link, no IP address	
Solid yellow	IP address assigned	
Blinking green (slow)	Attempting a connection to the iDigi server	
Blinking green (fast)	iDigi server found, authenticating	
Solid green	Connected to iDigi server	

Note: The button on the ConnectPort X2e is intended for advanced configuration or as directed in the online setup.

ERT/Smart Energy Bridge:

ERT	LED Status Update	Next Step
OFF	No ERT meter configured	Go through the steps to add an ERT meter on Smartlee (however, it

		doesn't exist right now)
ON	All ERT meters successfully read in the last 30 minutes	No further action required
Fast Blink (2x second period)	At least one ERT meter has not been read in the last 30 minutes.	 Verify that the ERT Smart Energy bridge is close enough to the meter. If blinking persists, call Digi Technology support or look at the support website and support forum.
Slow Blink (once every 2 seconds)	Initial 30 minute setup blink, at least one meter has not been read	Wait one minute. If after one minute the LED is not solid, follow "Next step" for "Fast Blink" above.
Association		
OFF	Not functioning correctly	 Verify that the power supply is connected to the device and outlet. If still not operating, call Digi Technology support or look at the support website and support forum.
ON	OK, however, online installation is not complete	Go through the steps to add an ERT meter on Smartlee (however, it doesn't exist right now). If you ERT meter shows up on your device list, delete it and re-add it
Blink	ОК	No further action required
Power		
OFF	No power	 Verify that the power supply is connected to the device and outlet. If still not operating, call Digi Technology support or look at the support website and support forum.
ON	ОК	No further action required

<u>SafePlug:</u>

Outlet/Receptacle Status Indicators

Outlet Status	Receptacle Status	Description	Next Step
Off	Off	No power	Check circuit breaker/fuse
Flashing Green	Off	Power quality fault, or outlet is recovering from a power failure/fault.	If this lasts longer than 30 seconds you may be experiencing failure in your building's electrical system
Flashing Green	Flashing Red	Power quality fault, or outlet is recovering from a power failure/fault AND an overload has been detected at the affected receptacle.	Remove the encoded plug, or remove the non-encoded plug and use 1622 Reset Fault key to clear the fault.
Green	Off	Power is OK, receptacle is "normally off", or a demand response event is active, or Zigbee "off" command was sent (encoded plug is not inserted).	Use a 1623 Power Key or send a remote "on" command.
Green	Green	Power is OK, receptacle is on.	No action required
Green	Flashing Green	Power is OK, encoded plug inserted, receptacle is off due to a demand response event or ZIgbee "off" command.	Remove and reinsert the plug or send a Zigbee "on" command to turn power back on.
Green	Flashing Red	An overload has been detected at the affected receptacle.	Remove the encoded plug, or remove the non-encoded plug

			and use 1622 Reset Fault key, to clear the fault. Have the load device inspected for faults and repaired or replaced.
Green	Red	SafePlug encoding error or invalid key.	Replace the plug encoding tag. Use only the valid keys.
Green	Double Flash Red/Green	Identify Mode activated	Normal receptacle operation. Identify mode terminates automatically after the interval expires.
Off	Both Flashing Red	Self-test Failure	Replace the SafePlug.

(Note: this table was copied from SafePlug Model 1202 Electrical Outlet Installation Code Guide (option 9915) last page.)

Zigbee Status Indicator

Zigbee Status	Meaning
Off	Outlet has not been previously joined to a Zigbee network and is scanning for a network to join.
1 flash/ 2sec. Amber	Outlet has been previously joined to a network and is attempting to rejoin.
Amber	Outlet is currently joined to a network.
2 flash/ sec. Amber	Outlet has been previously joined to a network and attempted rejoin failed. Outlet continues to try to rejoin.

https://docs.google.com/drawings/image?id=sFeZUJoZftctN9jvFSrsuag&w=460&h=327

Need more help?

Visit: support.digi.com

Forums : forums.digi.com/support/forum/index

Or call: US: 877-912-3444 Worldwide: +1 952-912-3456