Alexa
Orvibo S20

You will need:

- A web server with PHP enabled within the same network as your S20 Sockets (e.g. a NAS with web server features, Raspberry Pi, Always on PC) with port forwarding setup
- External Static IP Address
- S20 Sockets already configured who also have static IP addresses assigned to them by the router, make note of the IP and MAC addresses for each plug as you will need them
- Amazon Developer Account (they are free!): https://developer.amazon.com
- Amazon AWS Account (asks for credit card but also free!): https://console.aws.amazon.com

Setting up web service to turn plugs on/off remotely (Credit to Antikton)

- Download the zip file in this post: https://www.domoticz.com/forum/viewtopic.php?t=8212#p56838
- Unzip them to your web server (making note of where they are)
- Using a web browser, go to the s20.php page with the following switches: ip=YOUR.IP.ADDRESS mac=YOUMACADDRESS accion=on/off, e.g. to turn on http://YOURIP/s20/s20.php?ip=192.168.1.119&mac=XXXXXX XXXXXX&accion=on
to turn off http://YOURIP/s20/s20.php?ip=192.168.1.119&mac=XXXXXXXXX XXX&accion=off
Note, if you use a port other than 80 make you sure you update the address, e.g. http://YOURIP:YOURPORT/s20/….

Create Alexa Skill Files

- In the Amazon Developer Console goto Alexa Skills Kit (https://developer.amazon.com/edw/home.html#/skills/list)
- Add New Skill
Set the language to your own (I couldnt figure out why it wasnt working, turns out I live in the UK and didnt change the drop down to UK)
Skill Type = Custom Interaction Model
Name = Plugs
Invocation Name = plugs
Next
- Go back to the Skill Information and make note of the Application ID as you will need this later
- Download and extract this Zip: Alexa Skills S20 Files
- Edit index.php
var local_ip is your Local IP or Dynamic DNS name
var local_port is the port your web server is using (normally 80)
var APP_ID is your Application ID from Above
Further down you will see a list of examples for turning TV on and Off, you

can add more by copy and pasting the existing ensuring it ends with break;
Make note of all the "case" 's as you will need them later,
Save and Close

- Make a new zip file containing index and AlexaSkill files (only those 2 files)

Setting up Alexa Skill

- In the Amazon Developer Console goto Alexa Skills Kit (https://developer.amazon.com/edw/home.html#/skills/list)
- Add New Skill
  Set the language to your own (I couldnt figure out why it wasnt working, turns out I live in the UK and didnt change the drop down to UK)
  Skill Type = Custom Interaction Model
  Name = Plugs
  Invocation Name = plugs
  Next
- Go back to the Skill Information and make note of the Application ID as you will need this later
- Go to https://console.aws.amazon.com/console/home?region=us-east-1
  Top right make sure US East (N. Virginia) is selected
- Select Lambda under Compute
- Create a Lambda function
  Skip Select Blueprint
  Click on empty box and select Alexa Skills Kit
  Next
  Name = plugs
  Code entry type = Upload a .ZIP file
  Upload newly created zip file of the 2 files
  Role = Create a custom role (then allow on the popup)
  Next
  Create Function
  Make note of ARN code in the top right as this will be needed later
- Go back to the Amazon Developer Console and select Interaction Model section
  In Intent Schema, copy and past the code from "IntentSchema" file which was downloaded earlier
  Under Custom Slot Types, add a new one with Enter Type as "Control_List" and Values as a list of "Case" 's which are in the index file
  In Sample Utterances, copy and paste them from SampleUtterances file which was downloaded earlier and feel free to add your own
  Next
- Select AWS Lambda ARN
  Tick North America
  Paste in ARN code from earlier
  Next
- Under Serivce Simulator, enter "tell plugs to turn tv on" and click Ask Plugs, this will execute the command and bring back the result,
- This should now list in your Alexa App under Skills>Your Skills
- You should now be ready to try on your Amazon Echo

Alexa

Common issues i came across

- the "case" is case sensitive, e.g. Television wouldn't work but television would, if in doubt add both
- Make sure whats in the index file as a case is listed in the Custom Slot Types lists
- Make sure you can trigger the on/off via a web browser inside and outside of your home network (e.g. trigger on mobile phone with wifi off), if this doesnt work it will need fixing first (port forwarding etc)

Unique solution ID: #1097
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