Intro

Welcome to the exciting world of the Internet. With the Syzygy Europa you'll be able to…

- Chat
- Download Games
- Download Applications
- Surf Message Boards
- Relive the past!

The Syzygy Europa is a 9600 Baud User Port Modem designed for the Commodore 64 and other systems. Thank you for purchasing the Syzygy Europa and I really hope you enjoy it and spend lots of time on various BBSs!

Overview

The Europa is very simple to look at. The brains of the modem reside in the ESP8266 SOC, that's System on Chip. With some software from other enthusiasts, see foot notes for references, we were able to push the C64 to 9600bps via the User Port. Wow!

Some of the features of the Syzygy Europa are…

- Compact and easy to understand
- Selectable power source
- Modem reset button
- Power and activity lights

Usage

The Syzygy Europa is very easy to use. With the power off insert it into the User Port like you would any other device. Firmly pressing on the blue connector tabs to ensure flush and proper installation.

With the power still off, choose your method of powering the modem. By default the jumper is set to power the modem via the C64's internal 5V regulator. If you have issues with doing this, move the jumper and power the modem via a micro USB cable.

With all the above complete, power on the C64 and boot up CCGMS Ultimate, link provided below. Once CCGMS is loaded press F7 to open the main options.

Here select User Port 300-2400 for the Modem Type. Then choose 300 as the Baud Rate. Then press Return. Once at the prompt press Return again and you should see the Modem's boot data.

Now type the command *at$sb=9600* and press Return. Then go back into the configuration settings by pressing F7. From here select the UP9600 and 9600 baud. Press Return once more to go back to the command line and type *at&w* this will save our settings to the flash memory.

So save the “Phonebook Config” and we’ll move on.

This next step is to configure your WiFi SSID and PSK. Have those handy. Before we configure WiFi, lets make sure the modem is communicating. Press RETURN and the modem should give you a blurb about it’s version and such. If not, recheck your connections and settings.

- Now press F8 to enter ANSCII mode, this is so we can enter your WiFi details.
- Type: *at$ssid=yourssidhere* Press Enter
- Then Type: *at$pass=yourwifipassword* Press Enter
- Type: *atc1* Press enter
- Your modem will now attempted to connect to your WiFi. Please note is in ONLY compatibable with 2.4Ghz WiFi
- To save your settings and changes type: *at&w* This will write all changes to flash memory so we won’t have to do this again.
- Press F8 to return to PETSCII/Graphics
- Type: *at?* To get a full list of commands and help.
- To connect to a BBS type: *atdturlofbbs:port* EG: *atdtcib.dyndns.org:6404*

You are now ready to connect to any BBS you wish! Check out:
http://cbbsoutpost.servebbs.com/ for an up-to-date listing on BBSes.

For further assistance send me an email at **keith@syzygy-systems.ca**

Thanks to the following for their hard work on the code:
https://github.com/RolandJuno/esp8266_modem GNU General Public License v3 (GPL-3)
https://1200baud.wordpress.com/ alwyz@sceneworld.org