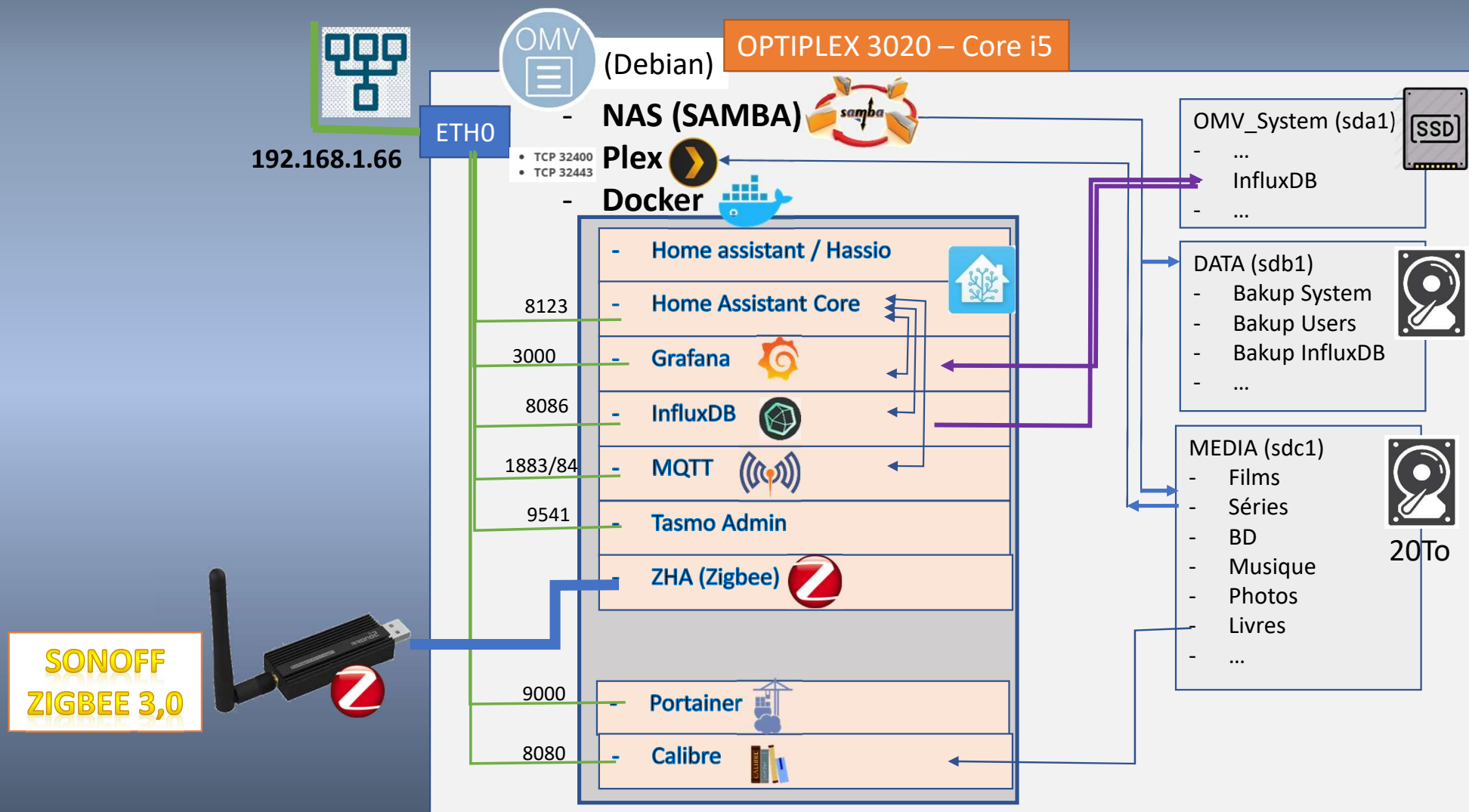


BASIC HARDWARE (DIY Home NAS)



OMV SETUP : Firewall

<div><div><div></div></div><div>Système</div><div>Réseau</div></div>									
<div>GénéralInterfacesProxyDécouverte des servicesPare-feu</div>									
<div>IPv4<div>+ Ajouter</div><div>✎ Modifier</div><div>✕ Supprimer</div><div>⬆ Haut</div><div>⬇ Bas</div><div>✓ Enregistrer</div><div>🔄 Rafraîchir</div></div>									
Direction	Action	Famille	Source	Port	Destination	Port	Protocole	Options supplémentaires	Commentaire
INPUT	ACCEPT	IPv4	-	-	-	-	Tous	-m conntrack --ctstate ESTABLISHED,RELATED	autorise tout le trafic existant
INPUT	ACCEPT	IPv4	-	-	-	-	Tous	-i lo	autorise tout le trafic loopback
INPUT	ACCEPT	IPv4	192.168.1.0/24	-	192.168.1.55	-	ICMP		autorise le ping depuis le sous reseau
INPUT	ACCEPT	IPv4	192.168.1.0/24	-	192.168.1.55	80	TCP		autorise le trafic sur l'interface d'administration
INPUT	ACCEPT	IPv4	192.168.1.0/24	-	192.168.1.55	443	TCP		trafic administration en SSL
INPUT	ACCEPT	IPv4	192.168.1.0/24	-	192.168.1.55	139	TCP		autorise samba
INPUT	ACCEPT	IPv4	192.168.1.0/24	-	192.168.1.55	445	TCP		samba imprimante
INPUT	ACCEPT	IPv4	192.168.1.0/24	-	192.168.1.55	445	UDP		partage imprimante
INPUT	ACCEPT	IPv4	192.168.1.0/24	-	192.168.1.55	137-138	UDP		samba netbios
INPUT	ACCEPT	IPv4	192.168.1.0/24	-	192.168.1.55	8200	TCP		autorise minidlna depuis local
INPUT	ACCEPT	IPv4	192.168.1.0/24	-	192.168.1.55	8200	UDP		Minidlan depuis local
INPUT	ACCEPT	IPv4	192.168.1.0/24	-	192.168.1.55	1200	UDP		minidlna depuis local
INPUT	ACCEPT	IPv4	192.168.1.0/24	-	192.168.1.55	22	TCP		autorise le port 22 du ssh en local
INPUT	ACCEPT	IPv4	192.168.1.0/24	-	192.168.1.55	22	UDP		autoriser le port 22 du SSH en local
INPUT	ACCEPT	IPv4	192.168.1.0/24	-	192.168.1.55	32400	TCP		Autorise plex en local
INPUT	ACCEPT	IPv4	192.168.1.0/24	-	192.168.1.55	32410-32414	UDP		autorise Plex en local
INPUT	ACCEPT	IPv4	-	-	192.168.1.55	28765	TCP		Connexion Externe PLEX
INPUT	ACCEPT	IPv4	-	-	192.168.1.55	21	TCP		port 21 pour ftp
INPUT	ACCEPT	IPv4	-	-	192.168.1.55	21	UDP		autorise FTP local + exter
INPUT	ACCEPT	IPv4	192.168.1.0/24	-	192.168.1.55	4200	TCP		shell in a box
INPUT	ACCEPT	IPv4	-	-	-	-	Tous		rejette le reste du trafic entrant

Plex

92768ca4-7c78-4b31-bfea-c834f7dca85a

/srv/dev-disk-by-uuid-92768ca4-7c78-4b31-bfea-c834f7dca85a/config/plex

```
---
version: "2.1"
services:
  plex:
    image: linuxserver/plex
    container_name: plex-omv5
    network_mode: host
    environment:
      - PUID=998
      - PGID=1000
      - VERSION=docker
      - PLEX_CLAIM= #optional
    volumes:
      - /srv/dev-disk-by-uuid-92768ca4-7c78-4b31-bfea-c834f7dca85a/config/plex:/config
      - /srv/dev-disk-by-uuid-ced42e8b-a8ab-4ee6-92b1-567e4166b4a5/MEDIAS/ANIME:/anime
      - /srv/dev-disk-by-uuid-ced42e8b-a8ab-4ee6-92b1-567e4166b4a5/MEDIAS/CLIPS:/clips
      - /srv/dev-disk-by-uuid-ced42e8b-a8ab-4ee6-92b1-567e4166b4a5/MEDIAS/FILMS:/films
      - /srv/dev-disk-by-uuid-ced42e8b-a8ab-4ee6-92b1-567e4166b4a5/MEDIAS/MUSIC:/music
      - /srv/dev-disk-by-uuid-ced42e8b-a8ab-4ee6-92b1-567e4166b4a5/MEDIAS/SERIES:/series
      - /srv/dev-disk-by-uuid-ced42e8b-a8ab-4ee6-92b1-567e4166b4a5/MEDIAS/PHOTOS:/photos
    restart: unless-stopped
```

/srv/dev-disk-by-uuid-d6002a2a-a497-4755-96d9-29870b6b43b4/Data SSD/configs/plex:/config

/srv/dev-disk-by-uuid-ced42e8b-a8ab-4ee6-92b1-567e4166b4a5/MEDIAS/ANIME:/anime

```
---
version: "2.1"
services:
  plex:
    image: linuxserver/plex
    container_name: plex-omv5
    network_mode: host
    environment:
      - PUID=998
      - PGID=1000
      - VERSION=docker
      - PLEX_CLAIM= #optional
    volumes:
      - /srv/dev-disk-by-uuid-d6002a2a-a497-4755-96d9-29870b6b43b4/Data SSD/configs/plex:/config
      - /srv/dev-disk-by-uuid-ced42e8b-a8ab-4ee6-92b1-567e4166b4a5/MEDIAS/ANIME:/anime
      - /srv/dev-disk-by-uuid-ced42e8b-a8ab-4ee6-92b1-567e4166b4a5/MEDIAS/CLIPS:/clips
      - /srv/dev-disk-by-uuid-ced42e8b-a8ab-4ee6-92b1-567e4166b4a5/MEDIAS/FILMS:/films
      - /srv/dev-disk-by-uuid-ced42e8b-a8ab-4ee6-92b1-567e4166b4a5/MEDIAS/MUSIC:/music
      - /srv/dev-disk-by-uuid-ced42e8b-a8ab-4ee6-92b1-567e4166b4a5/MEDIAS/SERIES:/series
      - /srv/dev-disk-by-uuid-ced42e8b-a8ab-4ee6-92b1-567e4166b4a5/MEDIAS/PHOTOS:/photos
    restart: unless-stopped
```

Calibre

Network mode host ou bridge ?

[linuxserver/calibre:latest](#)

```
---
version: "2.1"
services:
  calibre:
    image: lscr.io/linuxserver/calibre
    container_name: calibre
    environment:
      - PUID=998
      - PGID=1000
      - TZ=Europe/Paris
      - PASSWORD= #optional
      - CLI_ARGS= #optional
    volumes:
      - /srv/dev-disk-by-uuid-d6002a2a-a497-4755-96d9-29870b6b43b4/Data_SSD/configs/calibre:/config
      - /srv/dev-disk-by-uuid-d6002a2a-a497-4755-96d9-29870b6b43b4/Data_SSD/ebooks/e-books-Calibre:/ebooks
    ports:
      - 8080:8080
      - 8081:8081
    restart: unless-stopped
```

Host/volume

Path in container

/srv/dev-disk-by-uuid-d6002a2a-a497-4755-96d9-29870b6b43b4/Data_SSD/configs/calibre

/config

/srv/dev-disk-by-uuid-d6002a2a-a497-4755-96d9-29870b6b43b4/Data_SSD/ebooks/e-books-Calibre

/ebooks

Connected networks

Join a network

Select a network

Join network

Network	IP Address	Gateway	MAC Address	Actions
bridge	172.17.0.4	172.17.0.1	02:42:ac:11:00:04	<div><div></div>Leave network</div>

Cloud-cmd (Docker Stack)

```
---
version: '2'
services:
  web:
    ports:
      - 7000:8000
    volumes:
      - ~/.root
      - /:/mnt/fs
    image: coderaiser/cloudcmd
    restart: unless-stopped
```

Le système Hôte est accessible par « fs/srv/dev-disk-by-uuid...

Left Screenshot (UUID: 92768ca4-7c78-4b31-bfea-c834f7dca85a/):

name	size	date	owner	mode
..	<dir>	---.---.---	.	---
config	<dir>	15.02.2022	node	rwX rwX r-X
lost+found	<dir>	15.02.2022	root	rwX --- ---
aquota.group	7.00kb	06.06.2022	root	rw- --- ---
aquota.user	7.00kb	06.06.2022	root	rw- --- ---

Right Screenshot (UUID: ced42e8b-a8ab-4ee6-92b1-567e4166b4a5/):

name	size	date	owner	mode
..	<dir>	---.---.---	.	---
DATA	<dir>	17.06.2022	root	rwX rwX rwX
MEDIAS	<dir>	17.06.2022	root	rwX rwX r-X
lost+found	<dir>	04.12.2021	root	rwX --- ---
aquota.group	6.00kb	06.06.2022	root	rw- --- ---
aquota.user	8.00kb	06.06.2022	root	rw- --- ---

HA installation (on Debian)

wget https://github.com/home-assistant/os-agent/releases/download/1.2.2/os-agent_1.2.2_linux_x86_64.deb

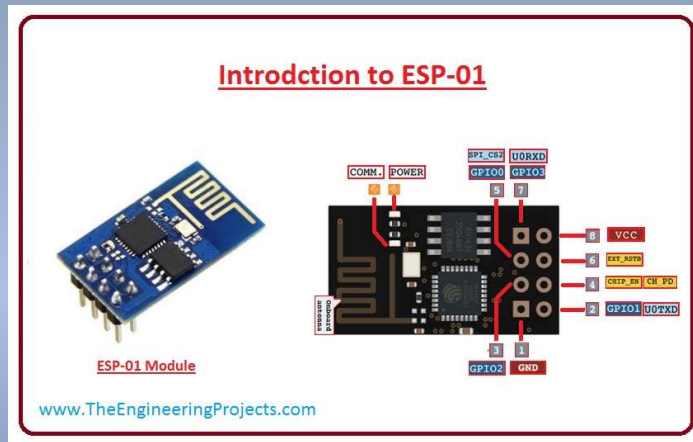
```
sudo dpkg -i os-agent_1.2.2_linux_x86_64.deb
```

HA supervised :

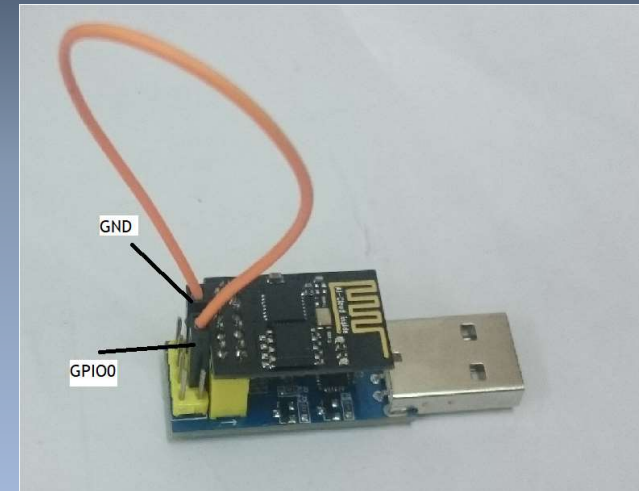
- HACS
- MQTT
- Frigate
- InfluxDB
- Grafana admin/admin

ESP01

- Bootloader mode esp01



```
{"NAME":"ESP01","GPIO":[1,0,1,1,0,0,0,0,0,0,0,0,0,0,0,0],"FLAG":0,"BASE":1}
```



WLED

access point WLED-AP / wled1234
(wled.me)

MDNS : <http://Wled-e159.local>

Commande par défaut sur pin D4 (GPIO2)

Tasmota clock : ESP01 (IP 160)

Commands

Timezone Paris :

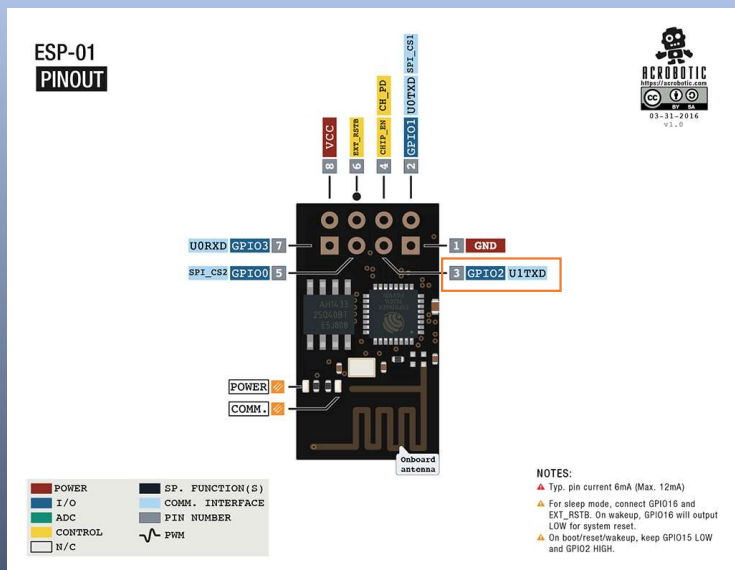
Backlog0 Timezone 99; TimeStd 0,0,10,1,3,60; TimeDst 0,0,3,1,2,120

Commande de l'anneau LED

(WS2812 sur pin D4 = GPIO2)

Pixels 60

Scheme 5



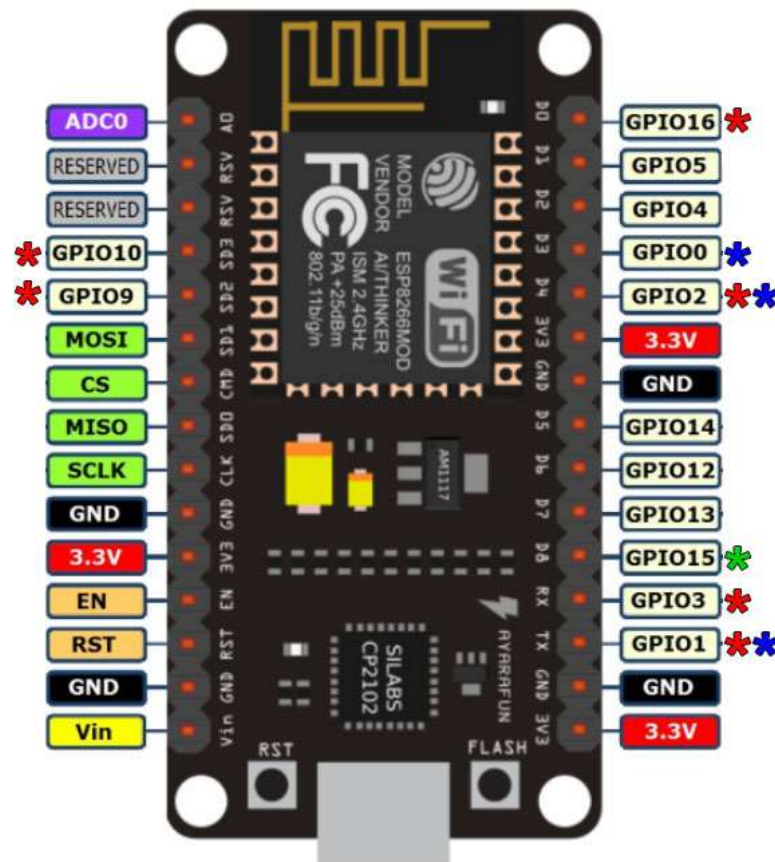
Generic Module	
Tasmota	
Module parameters	
Module type (Sonoff Basic)	
Generic (18) ▼	
D3 GPIO0	None ▼
TX GPIO1	None ▼
D4 GPIO2	WS2812 ▼
RX GPIO3	None ▼
D2 GPIO4	None ▼
D1 GPIO5	None ▼
D6 GPIO12	None ▼
D7 GPIO13	None ▼
D5 GPIO14	None ▼
D8 GPIO15	None ▼
D0 GPIO16	None ▼
A0 GPIO17	None ▼

NODEMCU : pinout and **important** notes on pin usage



NodeMCU ESP8266

GPIO LIMITATIONS



***Pin is high on boot**

***Boot failure if pulled low**

***Boot failure if pulled high**

Best Pins for Input (best to worst)

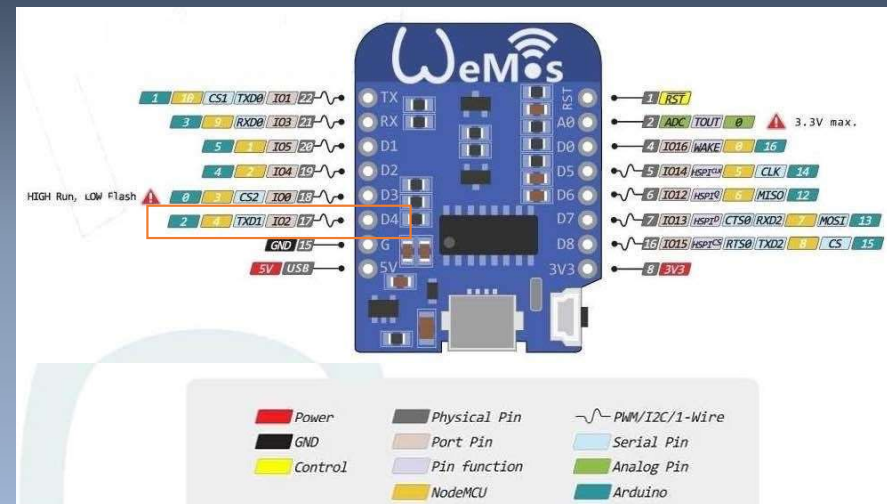
Board Label	Raw Pin Number
D1	5
D2	4
D5	14
D6	12
D7	13
D0	16
SD2	9
SD3	10
RX	3

Best Pins for Output (best to worst)

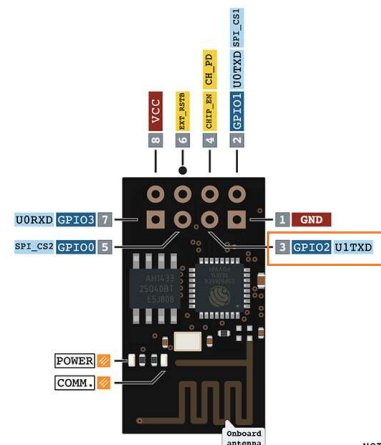
Board Label	Raw Pin Number
D1	5
D2	4
D5	14
D6	12
D7	13
D8	15

ESP 8266

WLED

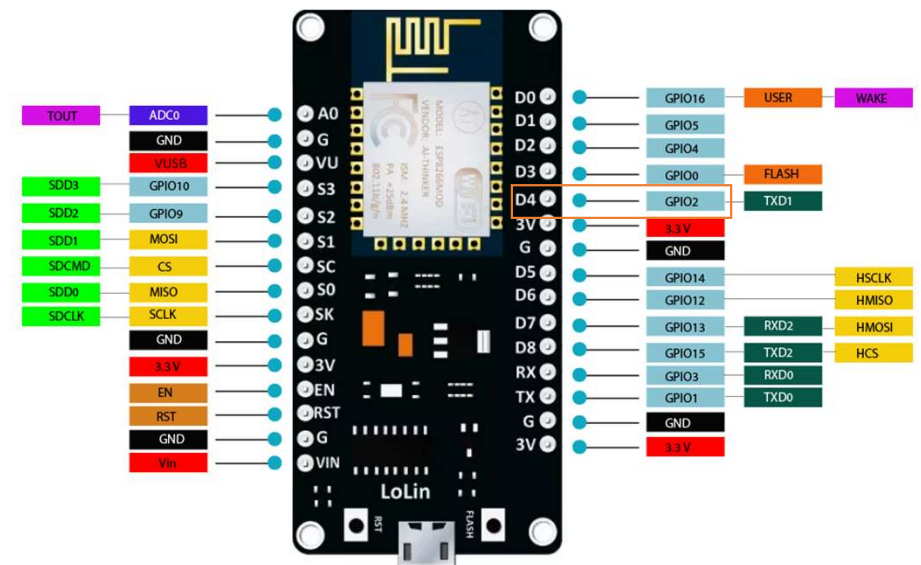


ESP-01 PINOUT



NOTES:

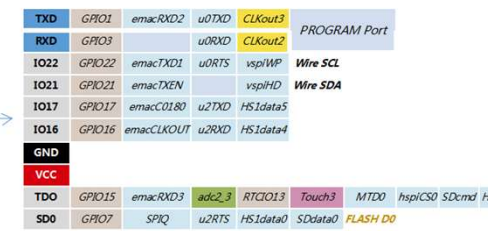
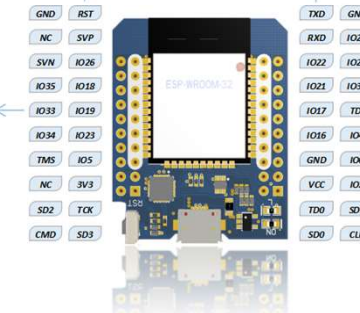
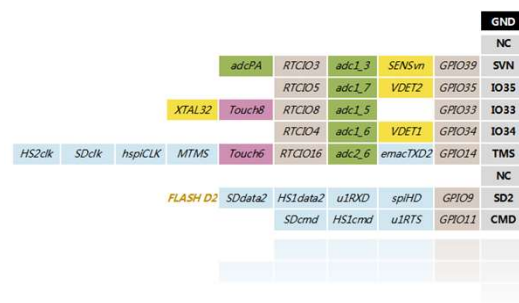
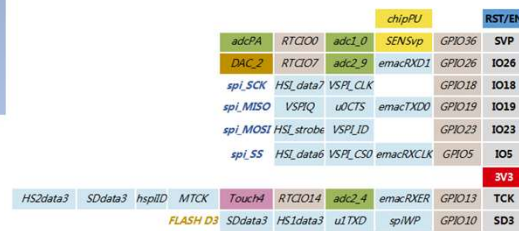
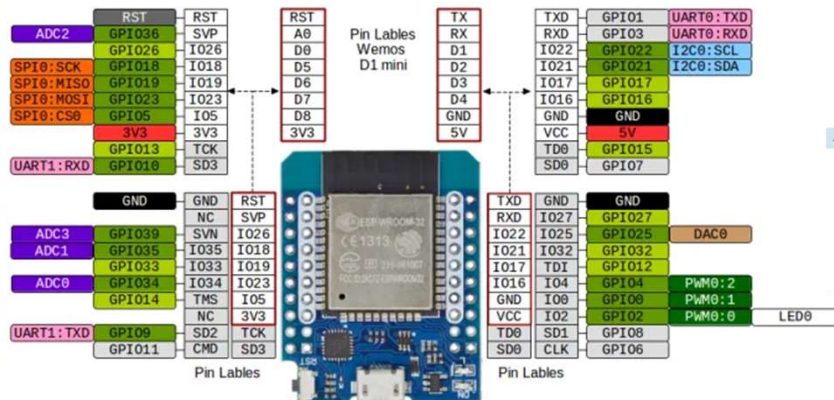
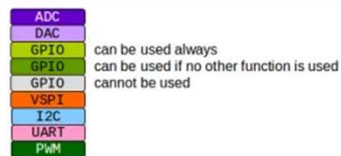
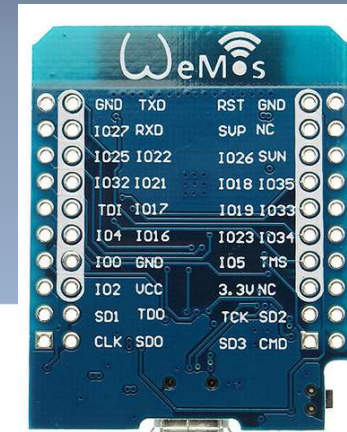
- ▲ Typ. pin current 6mA (Max. 12mA)
- ▲ For sleep mode, connect GPIO16 and EXT_RSTB. On wakeup, GPIO16 will output LOW for system reset.
- ▲ On boot/reset/wakeup, keep GPIO15 LOW and GPIO2 HIGH.



NodeMCU V3 Pinout

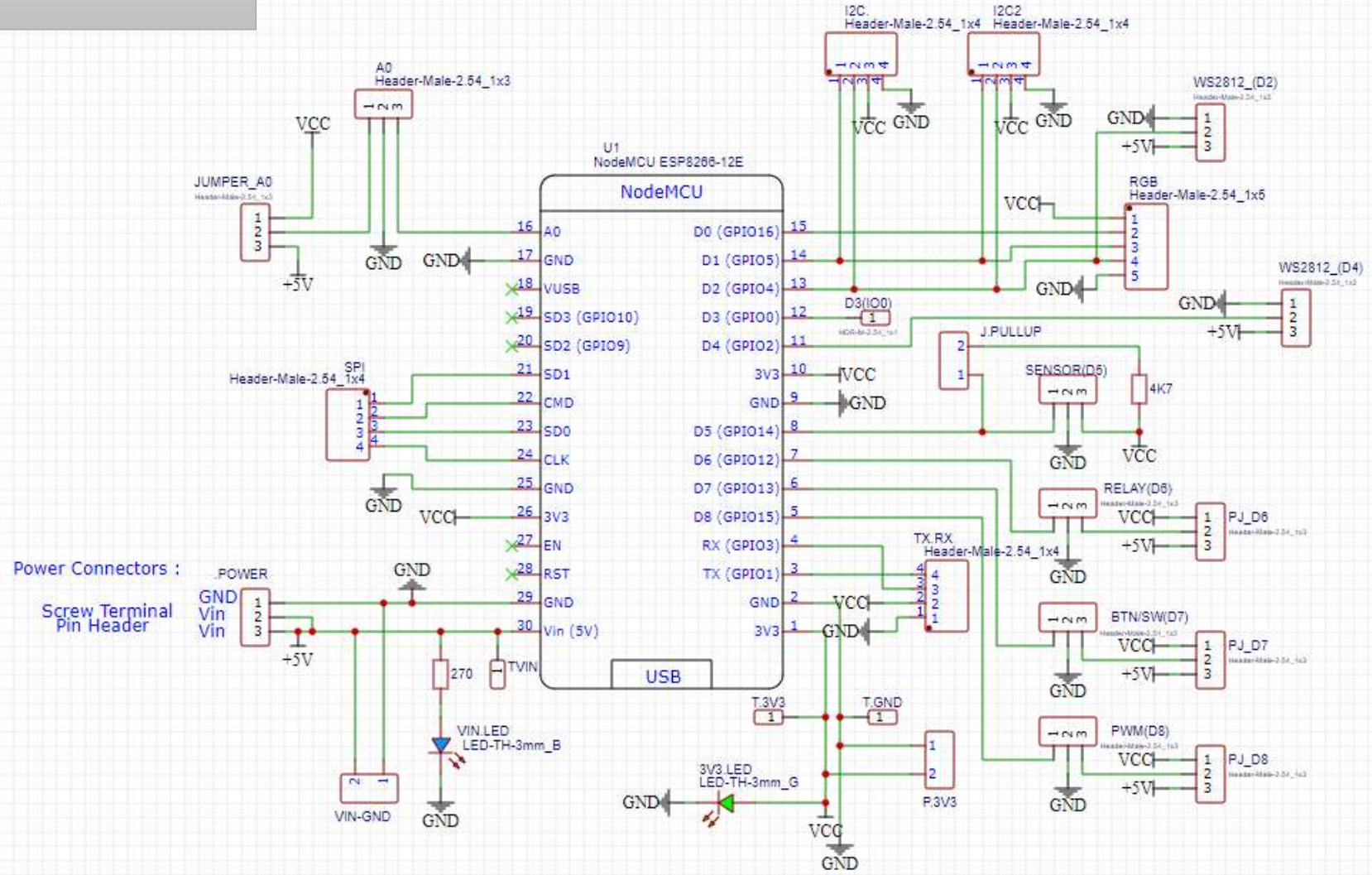
www.TheEngineeringProjects.com

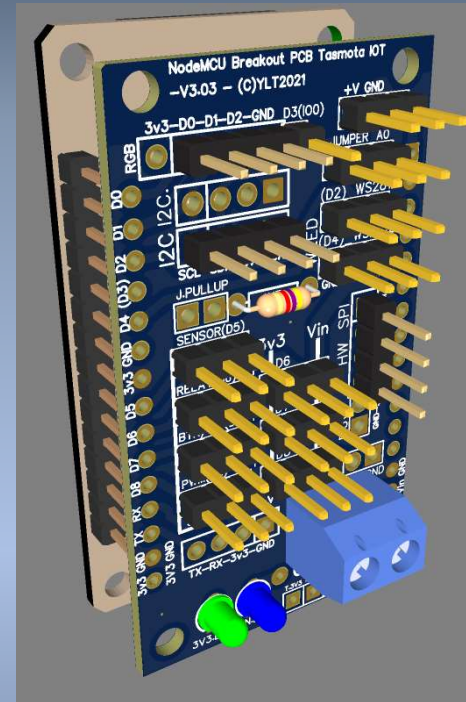
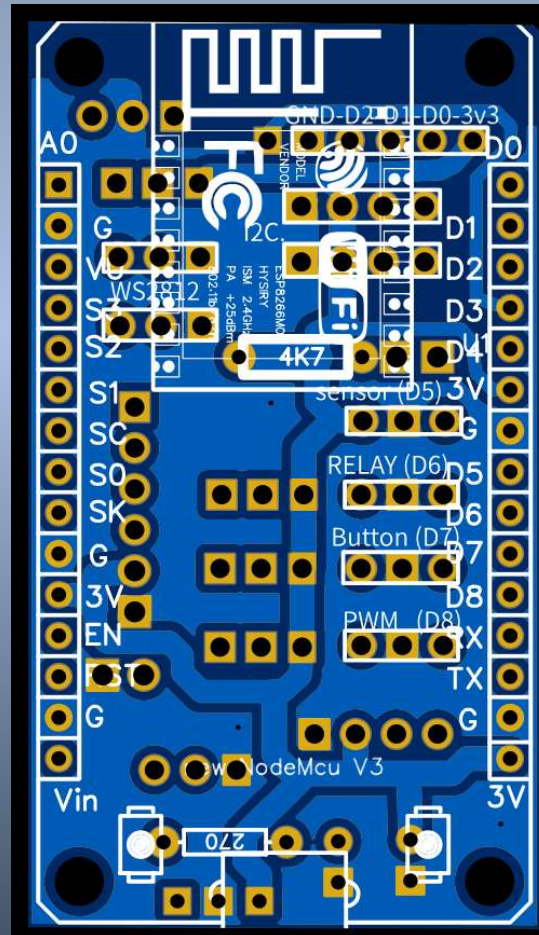
ESP32 pinout (wimos version)



NodeMCU Board

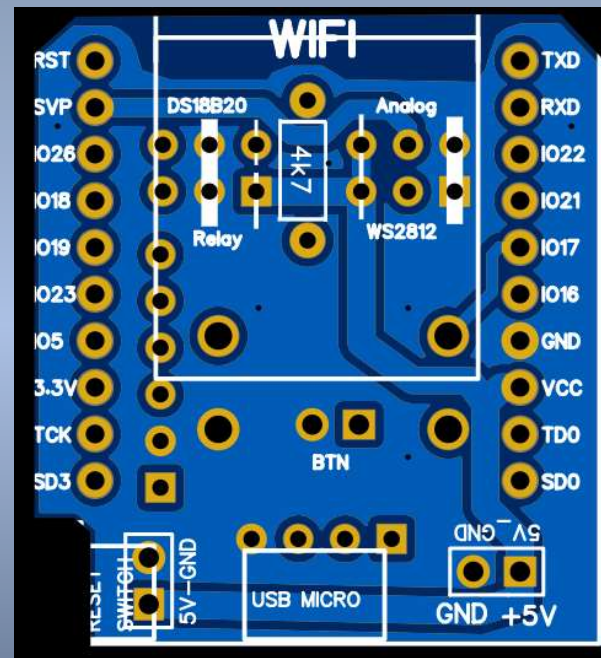
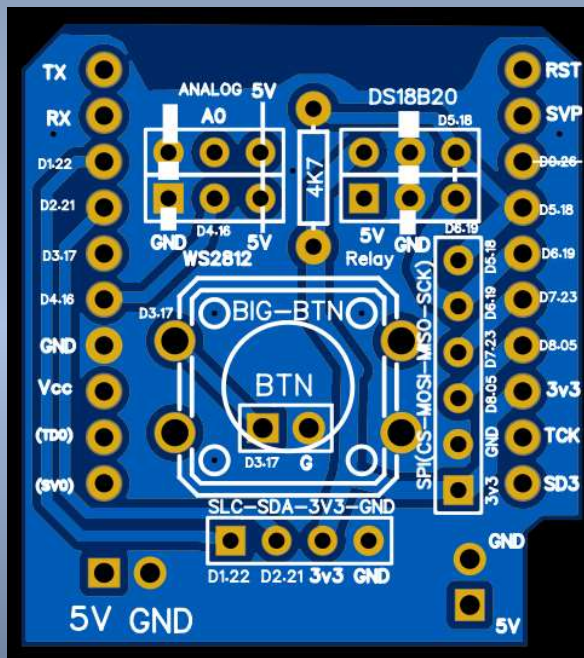
https://oshwlab.com/yvantispam/node_custom_copy_copy_copy_copy_copy



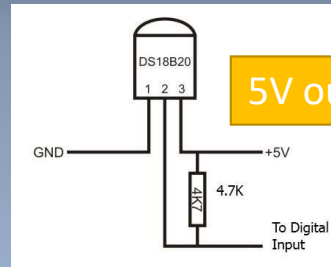
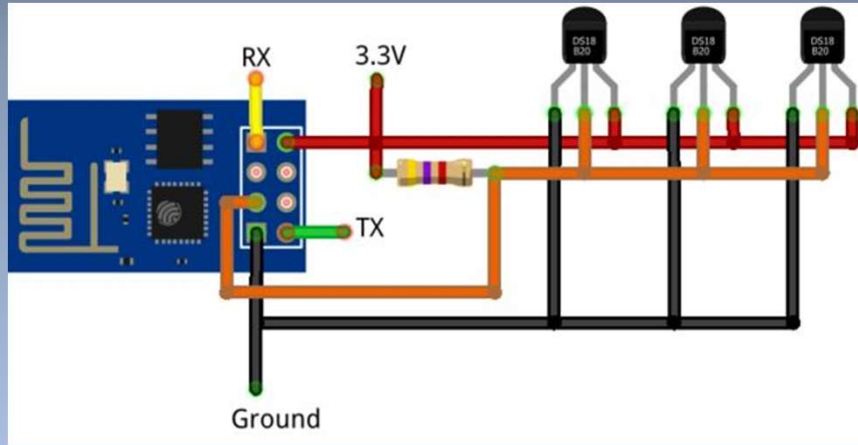
[illegible]

Wimos D1 (and ESP32 wimos) Breakout board

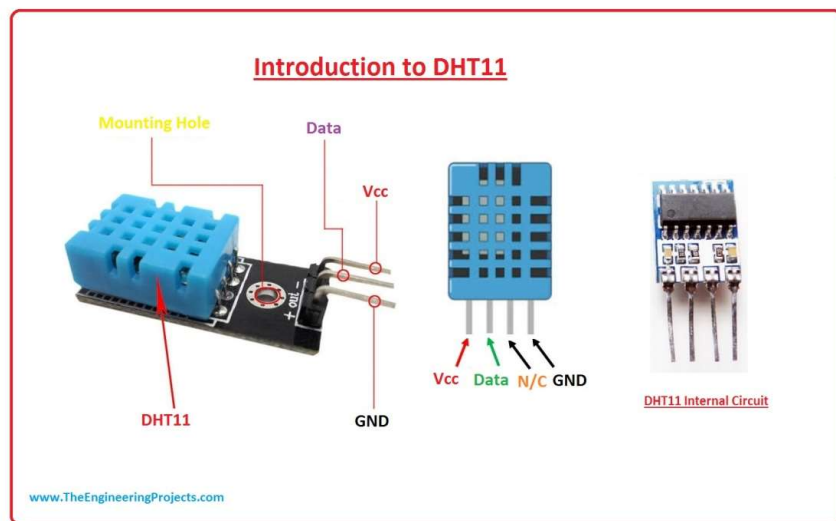
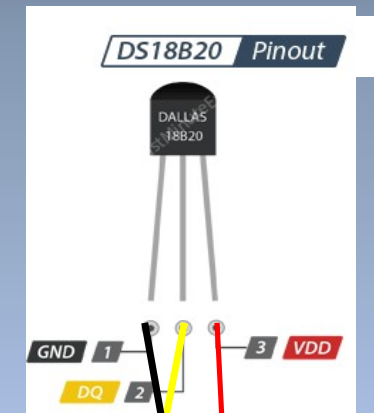
<https://oshwlab.com/yvantispam/ESP32-Wimos-D1-IOT-Board>



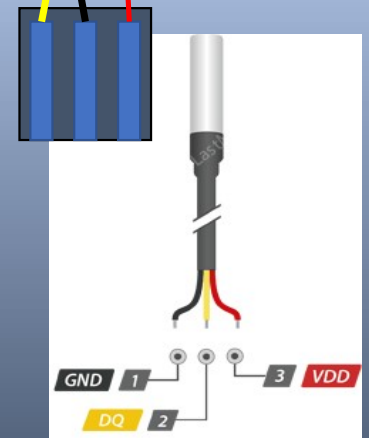
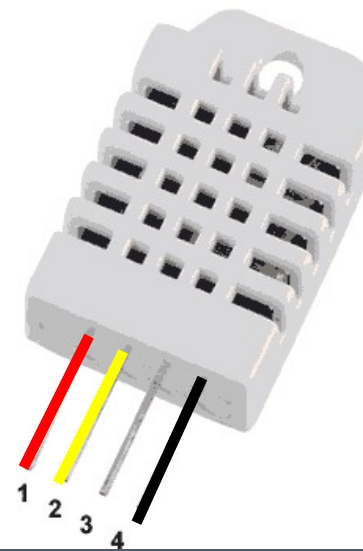
Temperature



5V ou 3 V ?



DHT22 pins	
1	VCC
2	DATA
3	NC
4	GND



Home assistant

Bouton avec « state » d'autre entité

```
type: 'custom:button-card'  
name: Fer à Repasser  
entity: switch.z_tuya_prise04_on_off  
label: >  
  [[[ return 'Consommation : ' + states['sensor.z_tuya_prise04_electrical_measurement'].state + ' W'; ]]]  
show_name: true  
show_last_changed: false  
show_state: false  
show_label: true  
color: auto  
color_type: icon  
styles:  
  name:  
    - font-size: 150%  
  label:  
    - color: gray  
    - font-size: 80%  
tap_action:  
  action: toggle  
lock:  
  enabled: true  
  unlock: double_tap
```



ZHA ne gère pas le paramètre « Restore_after_power_loss » ?