Getting started with USB-RELAY SDK

EN INSTALL

On windows >= 10:

Step-1:

Install the PL2303 driver for windows follow the installation guide: (USB-RELAYDriverInstallationEN-FR).pdf

Step-2:

Download and Install Visual Studio Code:

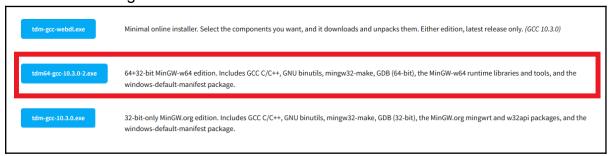
https://code.visualstudio.com/

Step-3:

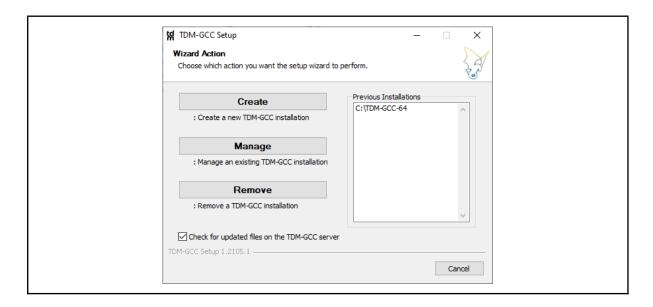
Download and Install TDM-GCC, version should be >= 10.3.0:

https://jmeubank.github.io/tdm-gcc/download/

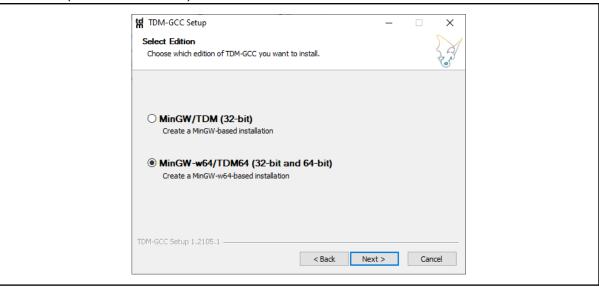
⇒Select tdm64-gcc with MinGw and all libraries



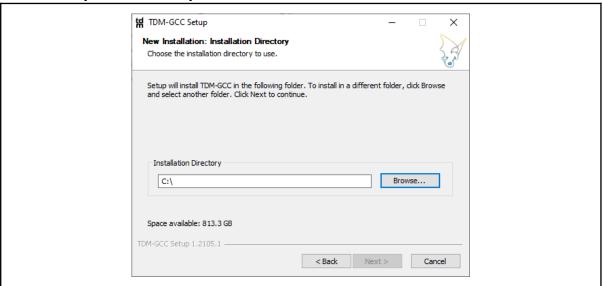
⇒Click on Create to create a new TDM-GCC install



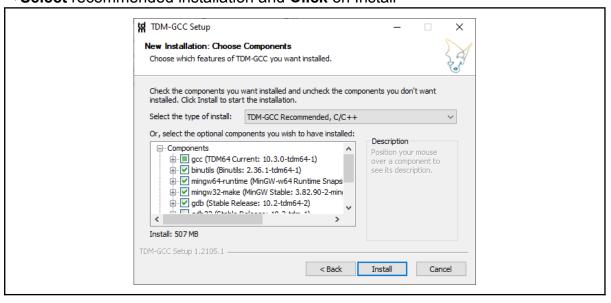
⇒Select (32-bit and 64-bit) install



→Install in your C directory



⇒Select recommended installation and Click on Install

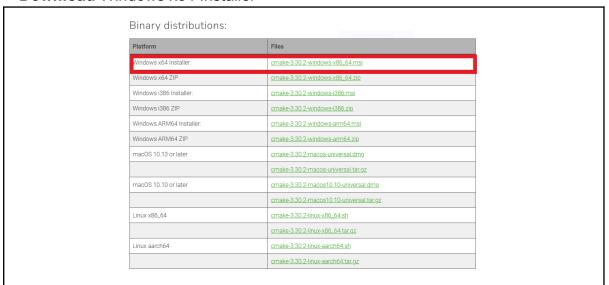


Step-4:

Download and Install Cmake, version should be >=3.30.2:

https://cmake.org/download/

→Download Windows x64 Installer



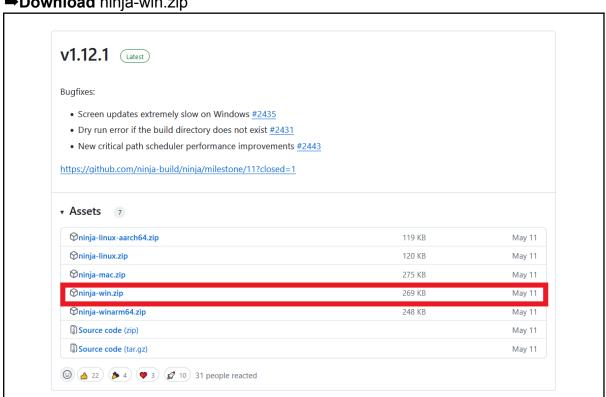
(Note): You can install the GUI version it does not matter

Step-5:

Download Ninja Build System

https://github.com/ninja-build/ninja/releases

→Download ninja-win.zip

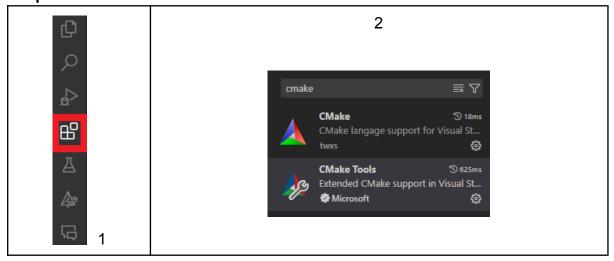


- →Unpack the archive, you should obtain a ninja.exe file
- →Open the your Cmake installation folder and Paste ninja.exe in the Cmake bin folder

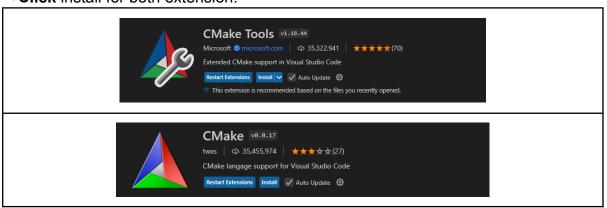


Step-6:

→Open Visual Studio Code and Install Cmake and others extensions:



⇒Click install for both extension:

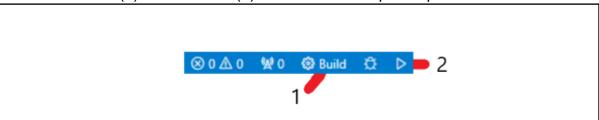


<u>Step-7:</u>

- **→Open** Visual Studio Code
- ⇒Click on Open Folder and Select USB-RELAY folder
- →Cmake popup windows appear Click on Configure Project:
 Cmake will automatically detect your installation and build your project in build folder
- → Connect your USB-RELAY board and Set the correct COM port and the default relay number in the example code located in: USB-RELAY/example/relaycontrol.cpp

```
Usbrelay* usbrelay = new Usbrelay("COM8",8);
```

⇒Click on **Build**(1) then **Launch**(2) to start the example sequence



Feel free to modify and change the Code

On linux:

Step-1:

Download and Install Visual Studio Code:

https://code.visualstudio.com/

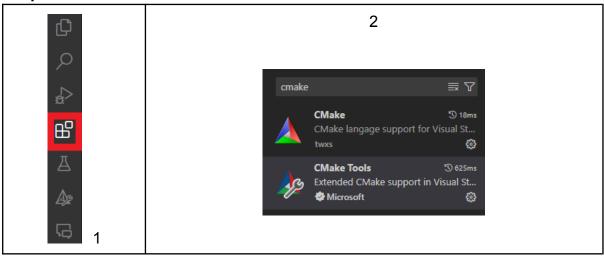
Step-3:

Install Cmake with apt, run the following command in your terminal

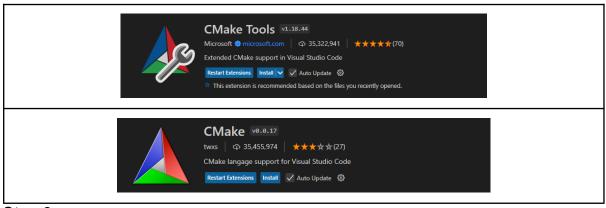
sudo apt-get install cmake

Step-2:

→Open Visual Studio Code and Install Cmake and others extensions:



⇒Click install for both extension:



Step-3:

- →Open Visual Studio Code
- **⇒Click** on **Open Folder** and **Select** USB-RELAY folder
- → Connect your USB-RELAY board and Set the correct COM port and the default relay number in the example code located in: USB-RELAY/example/relaycontrol.cpp

```
Usbrelay* usbrelay = new Usbrelay("COM8",8);
```

→ Open your terminal in the USB-RELAY folder, run the following commands to build the project:

```
mkdir build
cd build
cmake ..
make -j4
```

⇒Run the examples script

```
sudo ./usbrelay
```

Feel free to modify and change the Code

FR INSTALL

Sur windows >= 10:

Etape-1:

Installez le pilote PL2303 pour Windows en suivant le guide d'installation : (USB-RELAYDriverInstallationEN-FR).pdf

Etape-2:

Télécharger et installer Visual Studio Code:

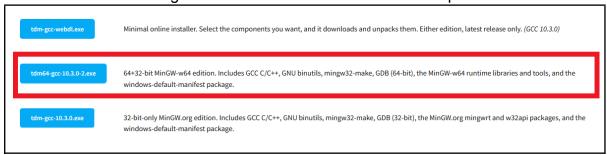
https://code.visualstudio.com/

Etape-3:

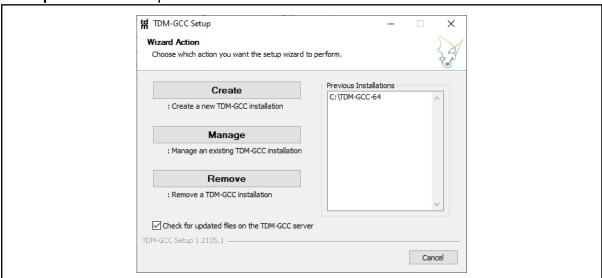
Télécharger et installer TDM-GCC, version >= 10.3.0:

https://jmeubank.github.io/tdm-gcc/download/

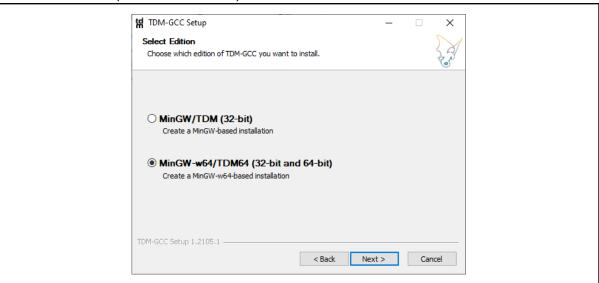
⇒Sélectionner tdm64-gcc avec MinGw et toutes les bibliothèques



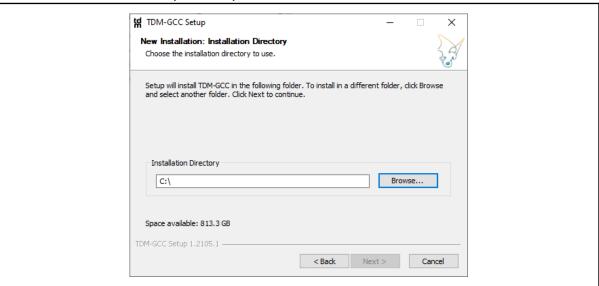
⇒Cliquer sur Create pour créer une nouvelle installation de TDM-GCC



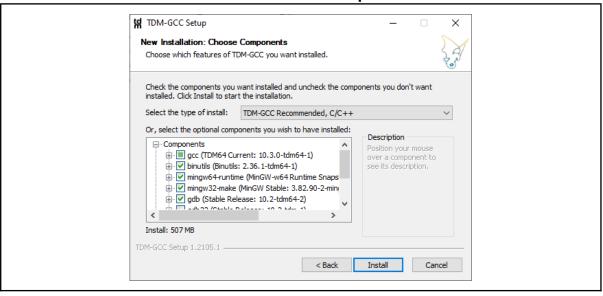
⇒Selectionner (32-bit and 64-bit)



⇒Installation dans le répertoire par défaut



⇒Sélectionner l'installation recommandée et Cliquer sur install

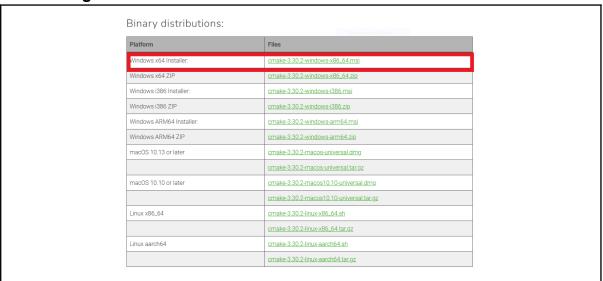


Etape-4:

Télécharger et installer Cmake, version>=3.30.2:

https://cmake.org/download/

⇒Télécharger Windows x64 Installer

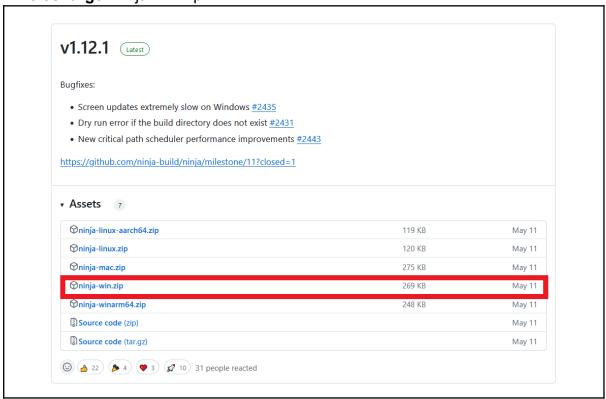


Etape-5:

Télécharger Ninja

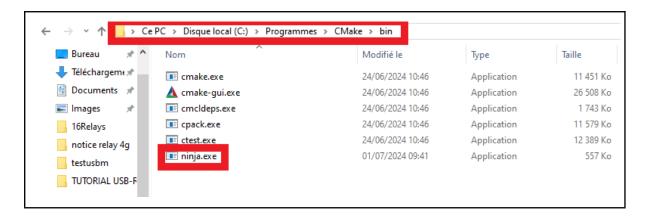
https://github.com/ninja-build/ninja/releases

→Télécharger ninja-win.zip



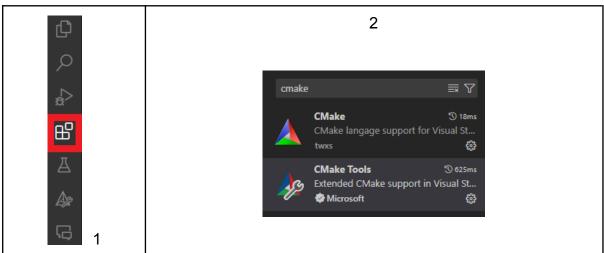
⇒Décompresser l'archive, vous devez obtenir un fichier ninja.exe

→Ouvrez votre dossier d'installation de CMake et Collez ninja.exe dans le dossier bin de CMake

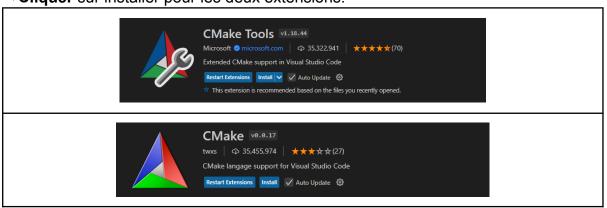


Etape-6:

→Ouvrir Visual Studio Code et installer Cmake et les extensions de votre choix



⇒Cliquer sur installer pour les deux extensions:



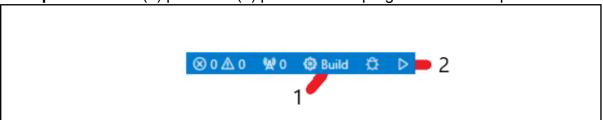
Etape-7:

- **→Ouvrir** Visual Studio Code
- ⇒Cliquer sur Ouvrir un dossier et Sélectionner le dossier USB-RELAY
- →Un popup Cmake va apparaitre Cliquer sur Configurer le Projet: CMake détectera automatiquement votre installation et construira votre projet dans le dossier build.
- →Connectez votre carte USB-RELAY et définissez le port COM correct et le nombre de relais par défaut dans le code d'exemple situé dans:

USB-RELAY/example/relaycontrol.cpp

```
Usbrelay* usbrelay = new Usbrelay("COM8",8);
```

⇒Cliquer sur **Build**(1) puis **Start**(2) pour lancer le programme d'examples



On linux:

Step-1:

Télécharger et installer Visual Studio Code:

https://code.visualstudio.com/

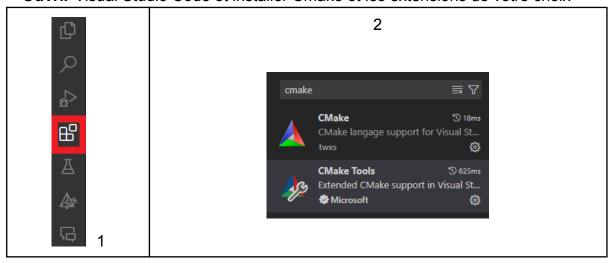
Step-3:

Installer Cmake avec apt, exécuter la commande suivante dans votre terminal

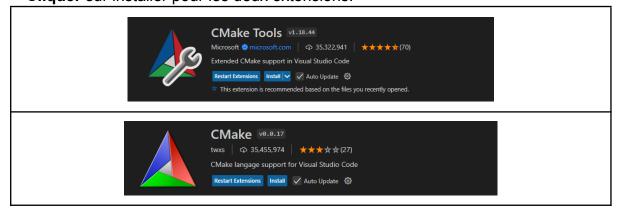
sudo apt-get install cmake

Etape-2:

→Ouvrir Visual Studio Code et installer Cmake et les extensions de votre choix



⇒Cliquer sur installer pour les deux extensions:



<u>Step-3:</u>

- →Ouvir Visual Studio Code
- ⇒Cliquer sur Open Folder and Sélectionner le dossier USB-RELAY

→ Connectez votre carte USB-RELAY et définissez le port COM correct et le nombre de relais par défaut dans le code d'exemple situé dans:

USB-RELAY/example/relaycontrol.cpp

```
Usbrelay* usbrelay = new Usbrelay("COM8",8);
```

→Ouvrez votre terminal dans le dossier USB-RELAY et exécutez les commandes suivantes pour construire le projet:

```
mkdir build
cd build
cmake ..
make -j4
```

⇒Exécuter le script d'exemple

```
sudo ./usbrelay
```