ECRAN NEXTION sur STM32F446

1/ Avant la programmation du STM32F446

Editer avec WordPad le fichier config.h du répertoire MMDVM

a/ Modifier la ligne pour le TCXO :   ex : #define EXTERNAL_OSC 12000000
b/ Modifier la ligne pour la carte MMDVM utilisé :   ex : #define ARDUINO_DUE_ZUM_V10
c/ Modifier la ligne pour l'écran : ex : #define SERIAL_REPEATER

```
#define  CONFIG_H

// Allow for the use of high quality external clock oscillators
// The number is the frequency of the oscillator in Hertz.
//
// The frequency of the TCXO must be an integer multiple of
48000.
// Frequencies such as 12.0 Mhz (48000 * 250) and 14.4 Mhz (48000
* 300) are suitable.
// Frequencies such as 10.0 Mhz (48000 * 208.333) or 20 Mhz
(48000 * 416.666) are not suitable.
//
// For 12 MHz
#define EXTERNAL_OSC 12000000
// For 12.288 MHz
// #define EXTERNAL_OSC 12288000
// For 14.4 MHz
// #define EXTERNAL_OSC 14400000
// For 19.2 MHz
// #define EXTERNAL_OSC 19200000

// Allow the use of the COS line to lockout the modem
// #define USE_COS_AS_LOCKOUT

// Use pins to output the current mode
// #define ARDUINO_MODE_PINS

// For the original Arduino Due pin layout
// #define ARDUINO_DUE_PAPA

// For the ZUM V1.0 and V1.0.1 boards pin layout
#define ARDUINO_DUE_ZUM_V10

// For the SP8NTH board
// #define ARDUINO_DUE_NTH

// To use wider C4FSK filters for DMR, System Fusion and P25 on
transmit
// #define WIDE_C4FSK_FILTERS_TX
// To use wider C4FSK filters for DMR, System Fusion and P25 on
receive
// #define WIDE_C4FSK_FILTERS_RX

// Pass RSSI information to the host
#define SEND_RSSI_DATA

// Use the modem as a serial repeater for Nextion displays
#define SERIAL_REPEATER
```
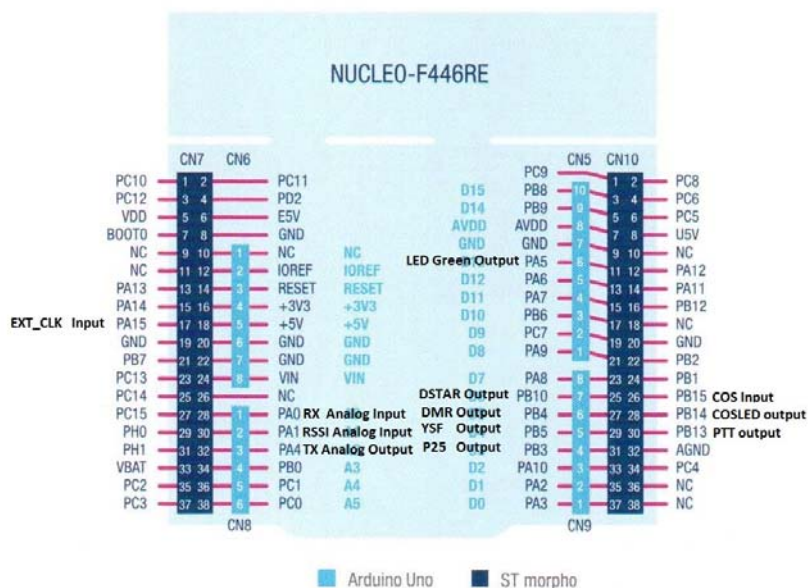
100 % ⊖

2/ Modifié le fichier MMDVM.ini

```
[Nextion]
Port=modem
# Port=/dev/ttyAMA0
Brightness=50
DisplayClock=1
UTC=0
IdleBrightness=20
```

3/ Brancher l'écran sur le bornier CN7 du STM32F46 :

Rx sur PC12 (fil jaune)
Tx PD2 (fil bleu)

L'alimentation de l'écran peut être prise sur le Raspberry ou autre 5V

Bon amusement

F1IZL