

Standard Operating Procedure

<UsingLibrary>

```
include;
    superapi::supercore;
    superapi::supergroupbox;
    superapi::superlogger;
    superapi::superserial;
    superapi::supertab;

public;
    geminibox public superapi::supertab;
```

<GeminiBox>

USB Serial Port COM61

▼

textactivated;

change serial port name;

1000000

▼

nousercontrol;

display gemini boards' baudrate;

Get Gemini Port

clicked;

add system serial port to combobox;

operate related widgets;

Connect Gemini Port

clicked;

use current setting connect serial port;

operate related widgets;

Scan Gemini Port

clicked;

send help,version to system serial ports;

if return Available commands;+,record and display serial port name on textbrowser and linedit;

Disconnect Gemini Port

clicked;

disconnect serial port;

operate related widgets;

Help

clicked;

send help command to serial port;

disable widget;

if return Available commands or time out 1000(ms),widget enabled;

display result on textbrowser;

Check Version

clicked;

send version command to serial port;

disable widget;

if return + or time out 1000(ms),widget enabled;

display result on textbrowser;

Run Tx Test

clicked;

send run tx test command to serial port;

disable widget;

if return < or time out,widget enabled;

display result on textbrowser;

Freq

▼

textchanged;

check frequency combobox,

power combobox,

length combobox,

number comboboxs' current text is could convert to int;

if could,enable run tx test widget;

Power ▾

textchanged;
check frequency combobox,
power combobox,
length combobox,
number comboboxs' current text is could convert to int;
if could,enable run tx test widget;

Length ▾

textchanged;
check frequency combobox,
power combobox,
length combobox,
number comboboxs' current text is could convert to int;
if could,enable run tx test widget;

Number ▾

textchanged;
check frequency combobox,
power combobox,
length combobox,
number comboboxs' current text is could convert to int;
if could,enable run tx test widget;

Start Rx Test

clicked;
send start rx test command to serial port;
disable widget;
if return < or time out,widget enabled,change text as receiving...
display result on textbrowser;

Frequency ▾

textchanged;
check frequency comboboxs' current text is could convert to int;
if could,enable start rx test widget;

End Rx Test

clicked;
send end rx test command to serial port;
if return <,widget disabled,reset receiving... widget;
display result on textbrowser;

waiting for command ...

nousercontrol;
display last command sent;

String: ☒

nousercontrol;
string command;
add /r;
add /n;

Option: ☐

nousercontrol;
no function;

Valid_Package_Rx : 0

nousercontrol;
display vaild package received;

Corrupt_Package_Rx : 0

nousercontrol;
display corrupt package received;

Min_RSSI : 0

nousercontrol;
display min rssi;

Max_RSSI : -90

nousercontrol;
display max rssi;

AVG_RSSI : 0

nousercontrol;
display avg rssi;

Version Logs

<20220405 Version 1.03>

adapted to ubuntu kde x11 platform;

<20220209 Version 1.02>

use supertab,supergroupBox api;

<20220112 Version 1.01>

remove one key to burn function;

<20211003 Version 1.00>

first release;