Standard Operating Procedure

<UsingLibrary>
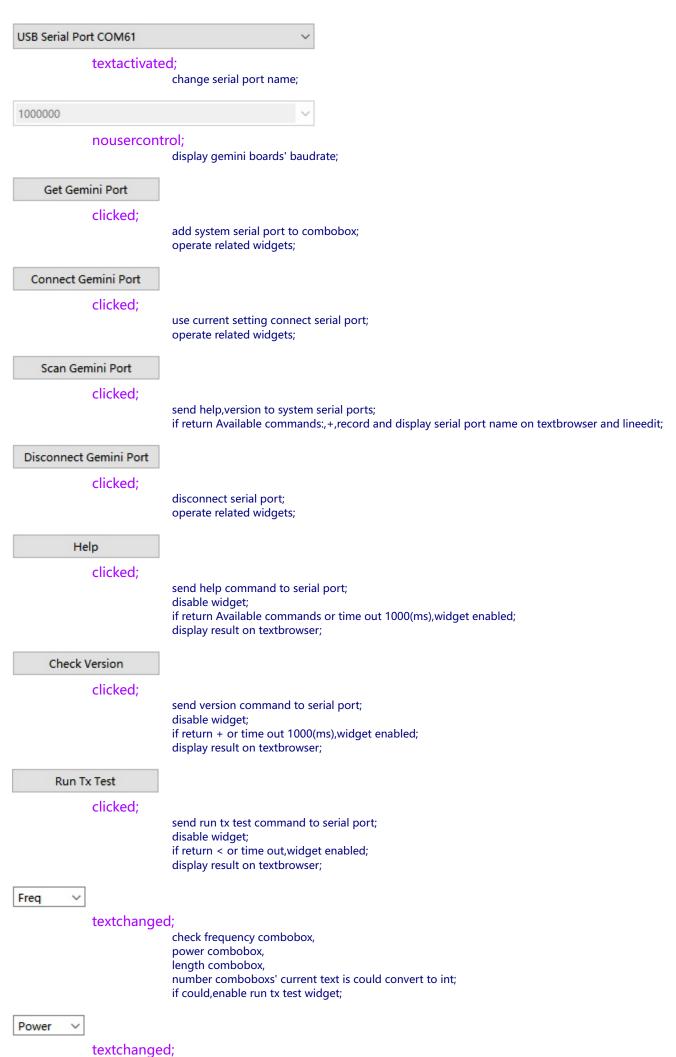
include;
          superapi::supercore;
          superapi::supergroupbox;
          superapi::superlogger;
          superapi::superserial;
          superapi::supertab;

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 lineedit;

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

<20220209 Version 1.02>

　　use supertab,supergroupbox api;

<20220112 Version 1.01>

　　remove one key to burn function;

<20211003 Version 1.00>

first release;