MKS TFT28 Wifi Communication Instruction

Link: TCP socket

Communication instruction

1. Each instruction ends with Enter button;
2. All gcode instruction forwards directly to the motherboard, in addition to special instruction in attached list , but go back to “ok\r\n”;
3. Send-receive explanation on special instruction format:

Instruction Type	Corresponding operation
Modify the current file system: M998 0: set the file system as U disk M998 1: set the file system as SD card	1. Return to“ok\r\n” 2. Invoke connector of alter file system, the parameter is 0 or 1
Get the printer's current state: M997	Return state: 1. “M997 IDLE\r\n”: free 2. “M997 PRINTING\r\n”: printing 3. “M997 PAUSE\r\n”: pause printing
List gcode file: M20 xxx	1. Return to “ok\r\n” 2. If xxx is empty, it means that lists the files in the root directory of the current system; otherwise, list the file by xxx designating 3. Return to “Begin file list\r\n” 4. return to filelist 5. Return to “End file list\r\n”
Choose the specified file (folder) M23 xxx.gcode	1. Return to “ok\r\n” 2. Invoke connector of the specified file，the parameter is xxx.gcode

Start(recover) file printing M24	1.Return to “ok\r\n” 2.Invoke connector of starting(recovering) file printing
Pause file printing M25	1. Return to “ok\r\n” 2. Invoke connector of pause file printing
Cancel file printing M26	1. Return to“ok\r\n” 2. Invoke connector of canceling printing file
Report process of printing M27	1. Return to“ok\r\n” 2.Invoke connector on process report of printing, and return to it by “M27 xxx\r\n” format
Delete file M30 xxx.gcode	1. Return to “ok\r\n” 2. Invoke connector of deleting file, the parameter is xxx.gcode
Choose and print the specified file M32 xxx.gcode	1. Return to “ok\r\n” 2. Invoke connector of the specified file, the parameter is xxx.gcode 3. Invoke connector of starting file printing
Start writing the specified file to current directory M28 xxx.gcode	1. Return to “ok\r\n” 2. Invoke connector of opening file and create file, the parameter is xxx.gcode 3. Write the Data received into the file by additional data
Check temperature : M105	1. Return to temperature string
Turn off motor M84	Return to “ok\r\n”
Modify motion coordinates to absolute coordinates G91	Return to “ok\r\n”
Modify motion coordinates to relative coordinates G90	Return to “ok\r\n”
Control X-axis motion G1 X xxx F yyy	xxx is moving distance，unit: mm yyy is moving speed，unit: mm/min
Control Y-axis motion G1 Y xxx F yyy	xxx is moving distance，unit: mm yyy is moving speed，unit: mm/min
Control Z-axis motion G1 Z xxx F yyy	xxx is moving distance，unit: mm yyy is moving speed，unit: mm/min
X-axis go back to zero G28 X0	Return to “ok\r\n”

Y-axis back to zero G28 Y0	Return to “ok\r\n”
Z-axis back to zero G28 Z0	Return to “ok\r\n”
Tri-axial back to zero G28	Return to “ok\r\n”
Control the printhead out G1 Exxx Fyyy	xxx is extrusive distance , unit: mm yyy is extrusive speed， unit: mm/min
Set printhead temperature M104 Sxxx	xxx is degree centigrade
Set heated-bed temperature M140 Sxxx	xxx is degree centigrade