Initialize:

This is used to record information and choose port number, and read EQF1259 information.
console name： transfer return data (from sending 2f0d) to character string
part number： transfer three return data (from sending 3C03) to integer
soft version： handle the four byte return data (from sending 5b04)
(byte[0] + byte[1])+ "." + (byte[2]+byte[3])

Connection：

Check according to the instruction

Scan DUT

a、 Check according to the instruction
b、 Scan to record PN, it will compare with part number automatically. If they don't match, then it will judge fail and couldn't test.

Power ON：

Distinguish manually
Collect voltage and current automatically、shown by wave form
voltage： transfer three return data (from sending 6C02) to integer /10
power state： send 6A01, if return data is 0, then it is power off and need to turn on power
power on： send 2802
current: transfer three return data (from sending 6E02) to integer /100
max current： transfer three return data (from sending 001) to integer /10

BLE Connect

feature： send 5002, distinguish whether it supports ble from the return data, if not, skip
tachstatus： send 8601, if return1, then go to next item

Maintenance：

firmware： record manually
calibrate： send 0502 and enter calibration, send 8401 and receive calibration status, if it is 0x04h then it means calibration complete and go to next item automatically.
keyCode: Distinguish manually

displayCode: Distinguish manually

PWM/Tach：

speed aerobic: transfer three return data (from sending8902) to integer /10
rpm aerobic：send 9E01 and get
Distinguish the result manually

Resistance:

feature：send 5002 , distinguish whether it supports Resistance, if not, skip
quick resistance: unknown

increase: send 9302, get res voltage, if res voltage increase by ≥0.5, then distinguish PASS

decrease：send 9002, get res voltage，if res voltage decrease by ≥ 0.3, then distinguish PASS

least：send 9002, get res voltage，if res voltage decrease by ≥0.4, then distinguish PASS

Pulse：

ble state：send 2701，adjust lcd display，send 0b01，ble on. Send 0201，return 02 and it means ble is connected, then distinguish PASS

Fan：

feature：send 5002 distinguish whether it supports，, if not, skip.
current: remind the user to increase fan, then decrease, send 6E02 to get current value, distinguish whether current is ≥0.6A，then ≤. If yes, then distinguish PASS

Audio：

Check according to the instruction
auto test：unknown

TV：

Check according to the instruction

USB:

Check according to the instruction

incline：

min incline： send 8202, and get
max incline： send 8002, and get
incline： send 7d02, and get， Distinguish whether it match 0-10 incline
increase： if the value is bigger than previous value, then PASS
decrease： if the value is smaller than previous value, then PASS
least： Distinguish whether it is 0

CSafe：

Check according to the instruction

Wahoo：

Check according to the instruction
Record the test result according to SN and date in txt file.