Circuit board function introduction

BKL:

B board

A board

Electric box:
DSP,EPOS,Power board ,
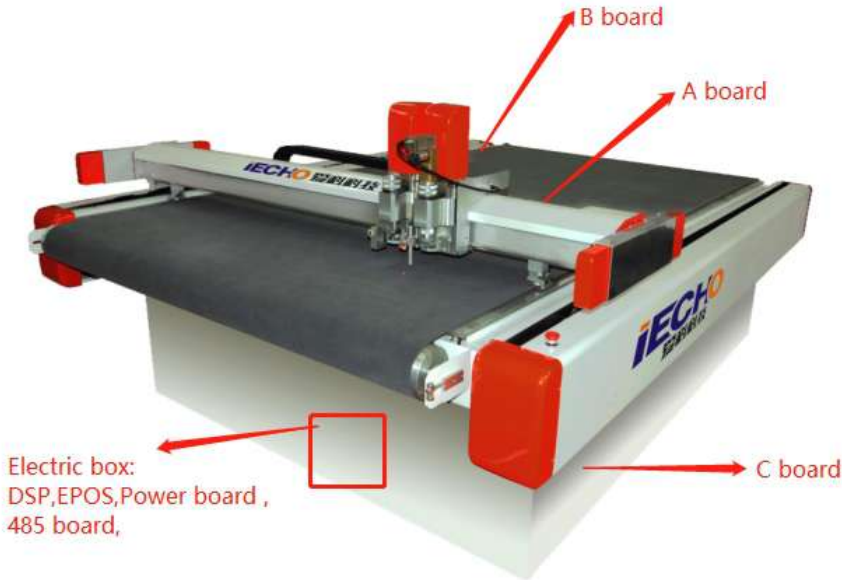485 board,

C board

A board:

Y axis original point sensor

Electromagnetic valve for press material
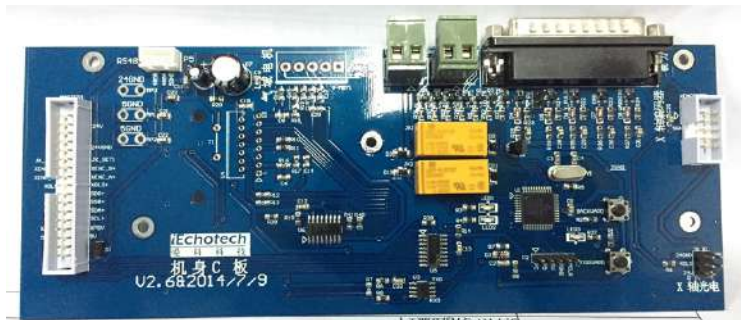
Barrier alarm

B board:

Control height motor and rotate motor in the cutting head

Control EOT, DRT/PRT, red light, pen
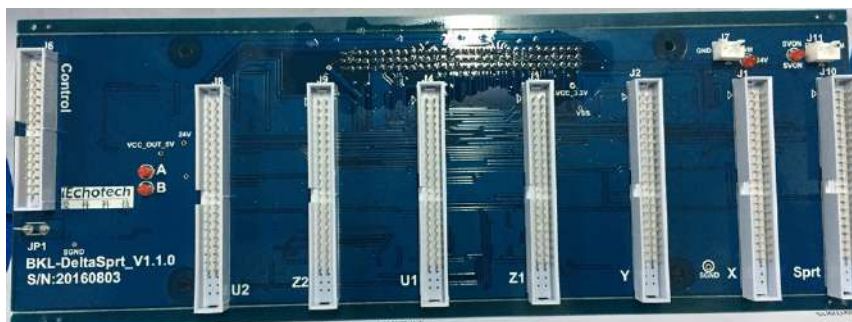
Control punch head

C board:

Control 350W router

X axis original point sensor
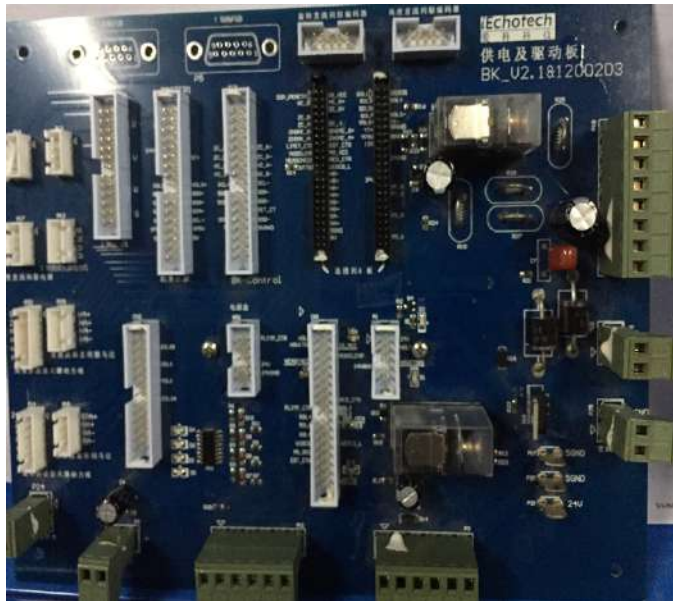
Control POT

EPOS board:

X,Y,U1,Z1,U2,Z2,U3,Z3 motor

Router function

C board commutation

Power board:

Pump

Reversing valve function

The signal of the origin sensor in X/Y direction

The signal of the ZHome A/B（Cutting head rotate reset）

AKI function

DSP board:

Cutting head reset (Reset sequence: head 2→head3→head1)

Cut in the right procedure

Pause

Back to original point

Pump

Automatic feeding

Electromagnetic valve

AKI function

Cutting tool
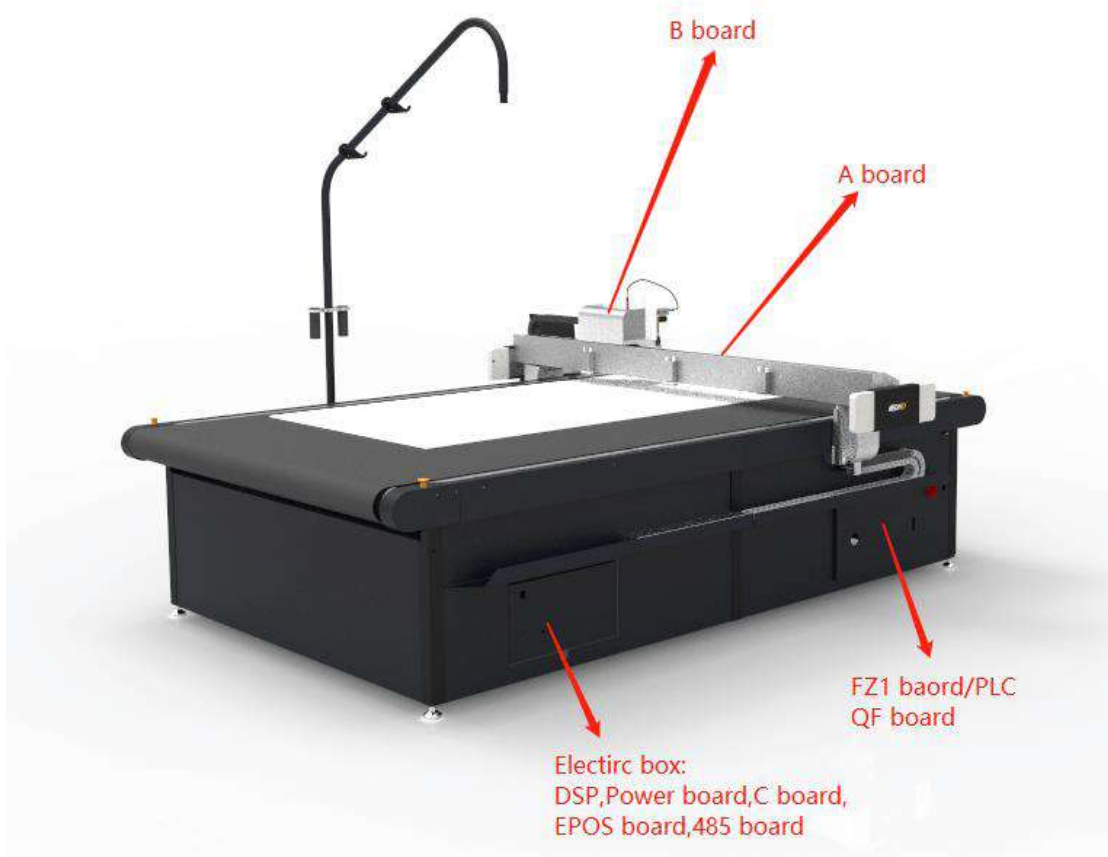
Pen

Vacuum

485/GPRS communication board:

Old   New

Communication between PC and machine

BK3:

B board

A board

FZ1 baord/PLC
QF board

Electirc box:
DSP,Power board,C board,
EPOS board,485 board

A board:

X, Y axis original sensor

Electromagnetic valve for press material

Barrier alarm

B board:

Control height motor and rotate motor in the cutting head

Control EOT, DRT/PRT, red light, pen

Control punch head

The signal of the ZHome A/B （Cutting head rotate reset）

The signal of select cutting head

Punch head

Control EOT and DRT/PRT

C board:

Control 350W router

Control POT

SPI communication

485 communication

EPOS board:

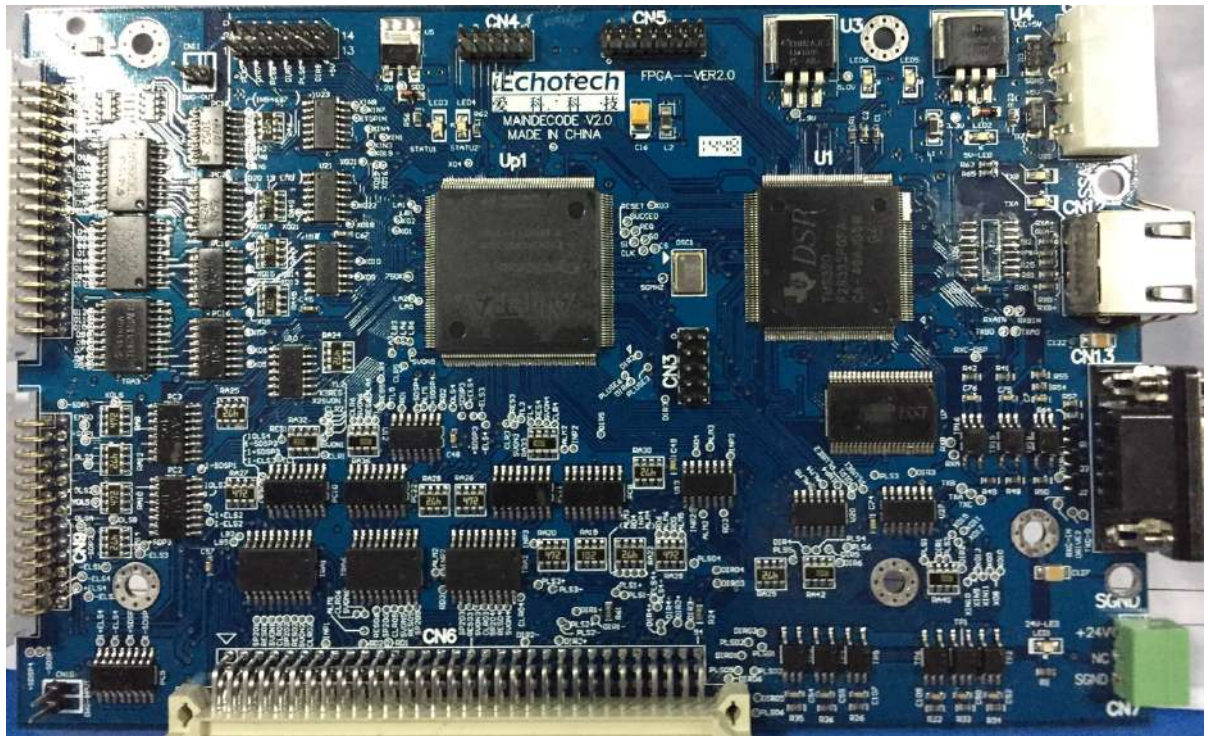X, Y, U1, Z1, U2, Z2, U3, Z3 motor

Signal of cutting head select

AKI board:

AKI function

DSP board:

Cutting head reset (Reset sequence: head 2→head3→head1)

Cut in the right procedure

Pause

Back to original point

Pump

Automatic feeding

Electromagnetic valve

AKI function

Cutting tool

Pen

Vacuum

Power board:

Pump

Reversing valve function

X, Y axis original sensor

The signal of the ZHome A/B

AKI function

Pause

Emergency stop

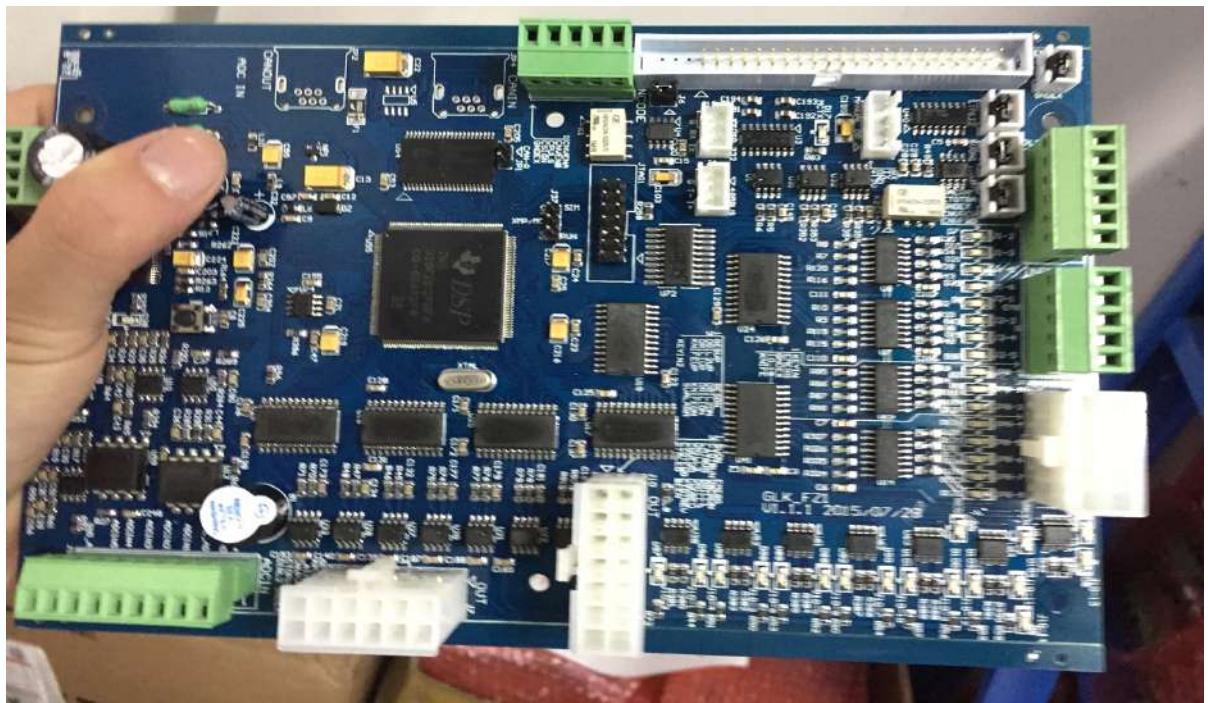24V time-delay relay

The signal of Zhome A/B original point

DC power input

QF board：

Control electromagnetic valve for Vacuum area select

FZ1 board:

Vacuum area selects

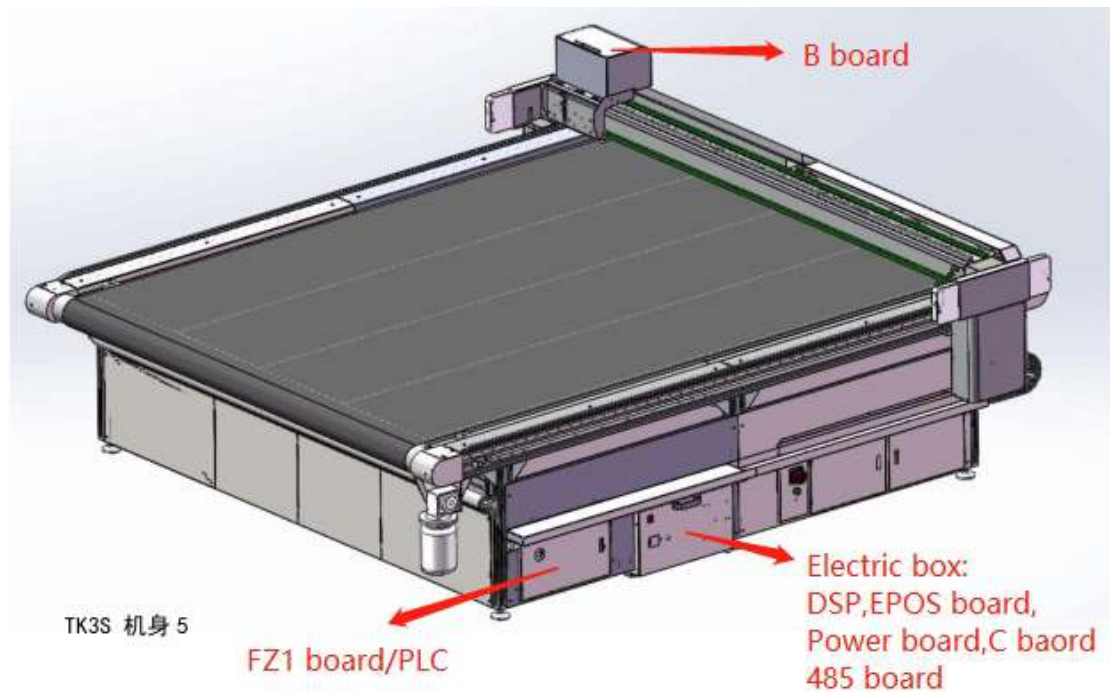Vacuum power

485/GPRS communication board:

Old   New

Communication between PC and machine

TK3S

TK3S 机身 5

FZ1 board/PLC

B board

Electric box:
DSP,EPOS board,
Power board,C baord
485 board

B board:

Control height motor and rotate motor in the cutting head

Control EOT, DRT/PRT, red light, pen

Control punch head

The signal of the ZHome A/B

The signal of select cutting head
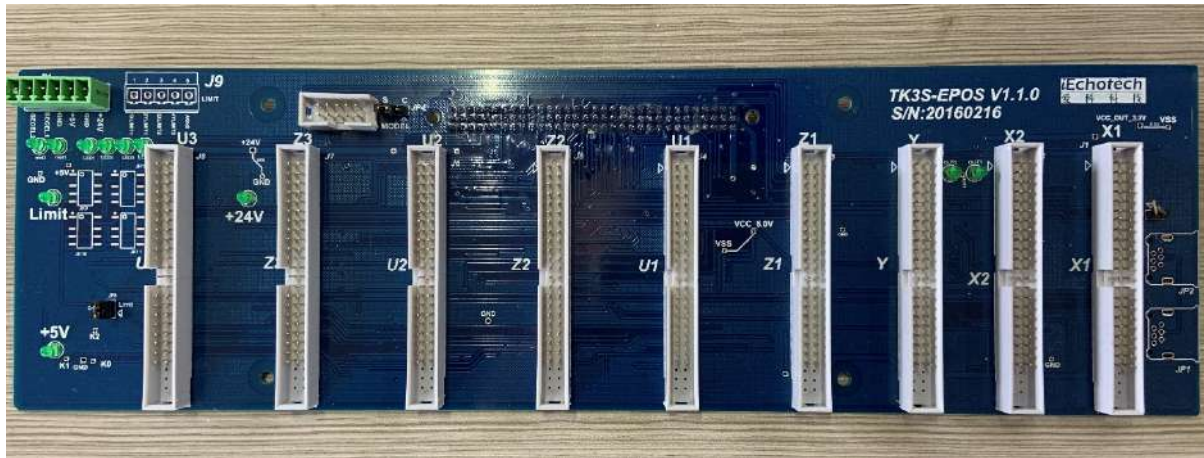
Punch head

Control EOT and DRT/PRT

C board:

Control router

Control POT

SPI communication

485 communication

EPOS board:

X1,X2,Y,U1,Z1,U2,Z2,U3,Z3 motor

Signal of cutting head select

Power board:

Pump

Reversing valve function

The signal of the origin sensor in X/Y direction

The signal of the ZHome A/B

AKI function

Pause

Emergency stop

24V time-delay relay

The signal of X1,X2,Y ,Zhome A/B original point

DC power input

DSP board:

Cutting head reset (Reset sequence: head 2→head3→head1)

Cut in the right procedure

Pause

Back to original point

Pump

Automatic feeding

Electromagnetic valve
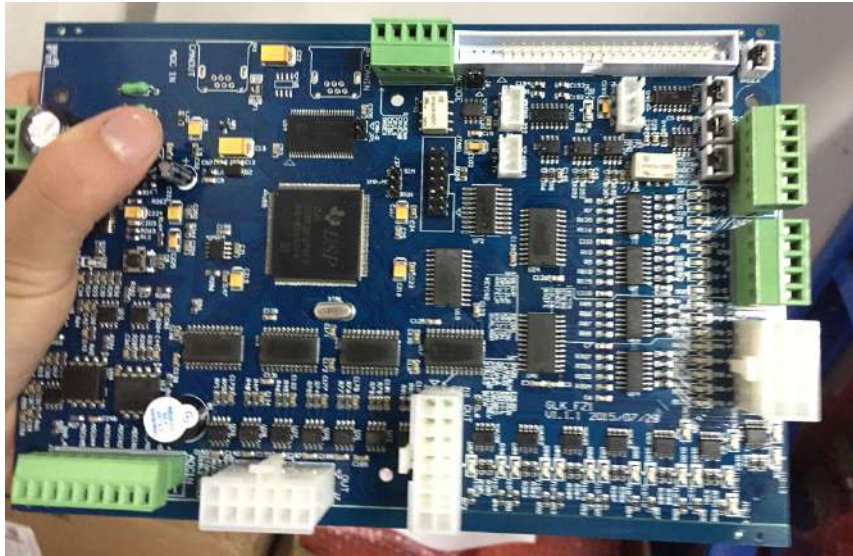
AKI function

Cutting tool

Pen

Vacuum

QF board：

Control electromagnetic valve for Vacuum area select

FZ1 board:

Vacuum area select

Vacuum power

485/GPRS communication board:

Old   New

Communication between PC and machine