

# ANT-1773 GPIO function

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All GPIO – 3.3V max 1mA

**Please note - These lines go directly to the processor without any protection, you need to be extremely careful**, for LED GPIO's do not connect directly, but uses a suitable drive transistor.

This information is subject to confirmation of the version of ANT-1773 firmware being used.

For further help and advice please contact Antrica on:  
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## Document info

Version	date	author	Comments
0.1	11-Oct-21	David M	Initial release

# 1. Connector

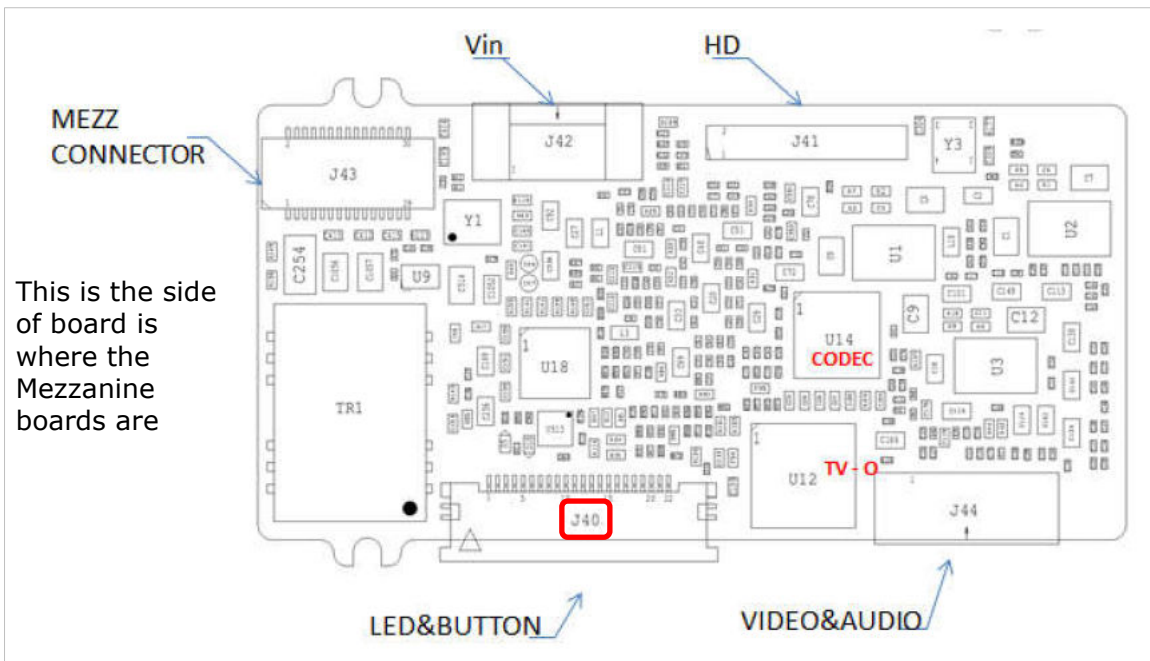
Table 1 : Board Connector part number

Ref	Manufacture	P/N	Description
J40	Molex	0545502271	0.50mm Pitch Easy-On FFC/FPC Connector, 1.20mm Height, Right-Angle, Surface Mount, ZIF, Top Contact Style, 22 Circuits, Gold (Au) Contact Plating

Board connector detail on Molex web site

[https://www.molex.com/molex/products/part-detail/ffc\\_fpc\\_connectors/0545502271](https://www.molex.com/molex/products/part-detail/ffc_fpc_connectors/0545502271)

Figure 1 : location of GPIO connector on ANT-1773



### 1.1. Pin out

Table 2 : GPIO pin out information

J40 – LED&SWITCH(GPIO)	
Pin Num	Name
1	POWER-ON
2	GND
3	SW2(GPIO)
4	GND
5	SW3(GPIO)
6	GND
7	SW4(GPIO)
8	GND
9	SW5(GPIO)
10	GND
11	LED1(GPIO)
12	LED2(GPIO)
13	LED3(GPIO)
14	LED4(GPIO)
15	LED5(GPIO)
16	LED6(GPIO)
17	LED7(GPIO)
18	LED8(GPIO)
19	LED9(GPIO)
20	LED10(GPIO)
21	3V3
22	

**Setup:**

IP switch 1 has cameras and spotbox  
 IP switch 2 has windows PC

**Test**

1. access web and all is fine
2. disconnect link between IP switch 1 and IP switch 2
3. press a few buttons on the web page
4. reconnect link between IP switch 1 and IP switch 2

## 2. Example

GPIO2

Number	Name	Type	
107	Record	Input	Remove
2	Camera led	Output	Remove
16	Record led	Output	Remove

**Insert led – The LED is on when identifying a camera**

GPIO2

**No GPIO**

Number:

Name:

Mode:

**Output Params:**

**Trigger:**

Keep Alive

Camera

Task

Error

**Activation On:**

Value:

**Mode:**

Const

Blink: On (Ms):

Off (Ms):

**Duration:**

Forever

Ms:

**Insert led –The led is blinking while recording**

GPIO2

**No GPIO**

Number:

Name:

Mode:

**Output Params:**

**Trigger:**

Keep Alive

Camera

Task

Error

**Activation On:**

Value:

**Mode:**

Const

Blink: On (Ms):

Off (Ms):

**Duration:**

Forever

Ms:

**Insert button for start/stop record**

GPIO2

**No GPIO**

Number:

Name:

Mode:

**Input Params:**

**Action:**

Toggle

Start

Stop

Shut Down

**Feedback:**

Feedback

**Events:**

Record

Stream

Play Stream

**Click:**

Click Value:

Click Mode:

Long Press (Ms)

## 2.1. Input settings

**Mode:** Input (selected), Input, Output

Input – button  
Output - led

**Feedback:**  Feedback

**Feedback** – if send the event

**Action:**

- Toggle
- Start
- Stop
- Shut Down

Toggle – toggle between start or stop  
Start – Start action  
Stop – Stop action  
Shut Down – Shut Down the system

**Events:**

Mux1

- Record
- Stream

Demux1

- Play Stream

Events – On click, start/stop mux/ demux action.

**Click:**

Click Value: 1

Click Mode: Click

Long Press (Ms) 300

Click value – The Click value  
Click Mode –

- Click - clicking and leaving a button
- Press – click only
- Long click – clicking for x Ms and leaving
- Long press – pressing for x ms

Click Press – for long click and long press

## 2.2. Output Settings

**Mode:** Output (selected), Input, Output

Input – button  
Output - led

**Activation On:**

Value: 1

0

Mode: 1

Value – 0 or 1 when the trigger is occurred

**Trigger:**

- Keep Alive
- Camera CH-1 CH-0
- Task Stream
- Error Record Failed

Keep alive – The system is on  
Camera – Camera is active  
Task – Streaming / record or other is active  
Error – There is an error

**Mode:**

- Const
- Blink: On (Ms): 500  
Off (Ms): 500

Const – The led is On without blinking  
Blink – The led is blinking according MS setting for on and off

**Duration:**

- Forever
- Ms: 5000

Forever – The led is on forever  
Ms – The led is on for X ms