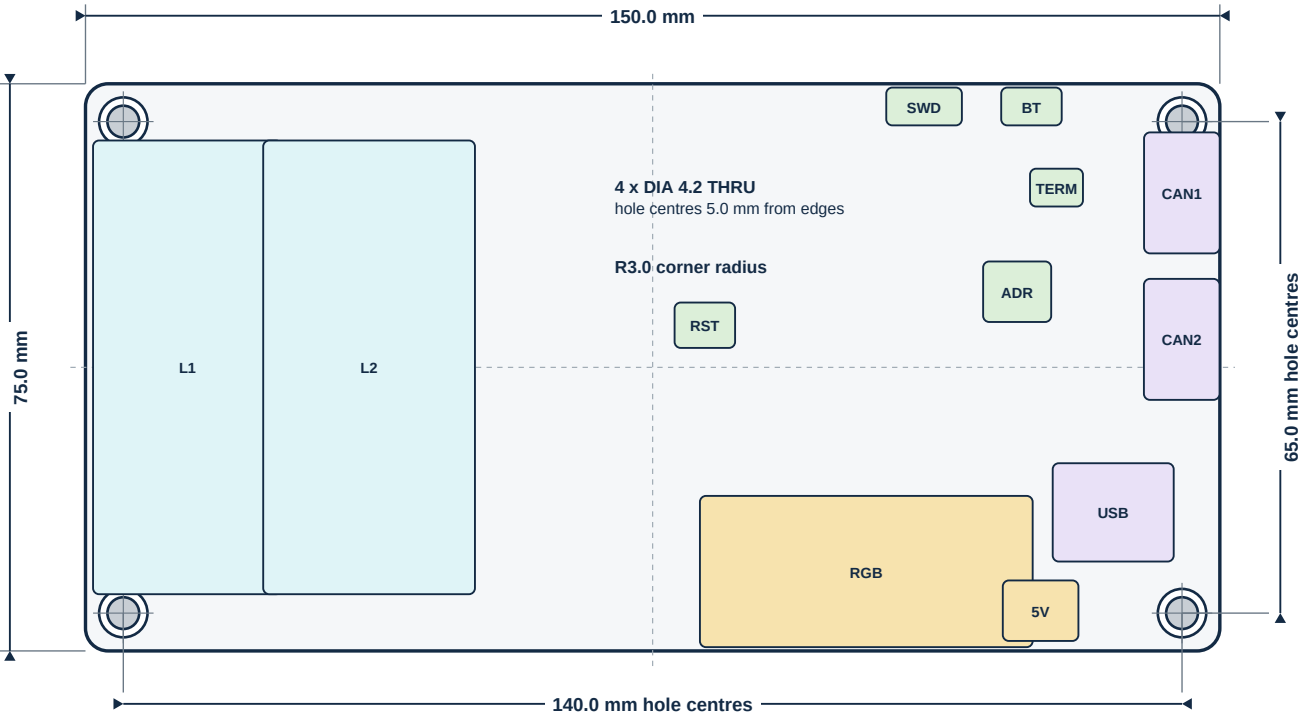


PKONE LIGHTSHOW

Mechanical outline, mounting pattern and connector locations



CONNECTOR KEY

- L1** J9-J13 - LED output headers
- L2** J14-J18 - LED/PWM headers
- RGB** J1-J8 - WS2813 RGB outputs
- 5V** 5V - power input
- CAN1** P1 - CAN / RJ45
- CAN2** P2 - CAN / RJ45
- USB** PUSB1 - USB-B
- SWD** ST_LINK1 - SWD programming
- BT** BOOT0 - boot selector
- ADR** S1 - board address DIP
- TERM** J19 - CAN termination
- RST** SW1 - reset

MOUNTING NOTES

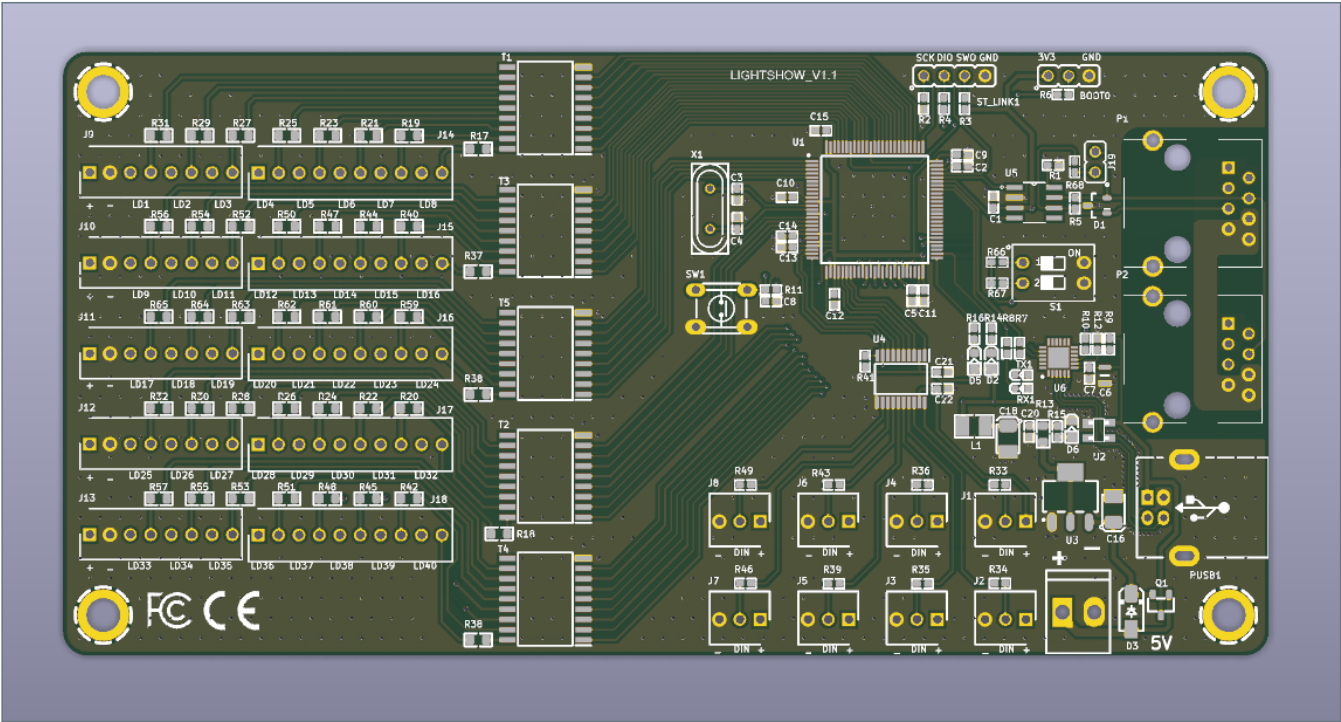
- PCB thickness: 1.6 mm nominal
- Drawing scale: 1:1 at 100%
- Dimensions are in millimetres
- Connector boxes are location references
- Use PCB/STEP data for final enclosure fit

PRINT CHECK

The 150 mm dimension must measure 150 mm.

PKONE LIGHTSHOW

Connector identification and reference coordinate table



CONNECTOR COORDINATES

REF	FUNCTION	X	Y
J9-J13	LED output header bank	3.29	37.53
J14-J18	LED/PWM header bank	24.28	37.58
J1-J8	WS2813 RGB output bank	103.25	64.48
5V	5 V input	126.30	69.68
P1	CAN / RJ45	144.98	14.43
P2	CAN / RJ45	144.96	33.80
PUSB1	USB-B	135.90	56.68
ST_LINK1	SWD programming	110.89	3.00
BOOT0	Boot selector	125.09	3.00
S1	Board address DIP	123.20	27.50
J19	CAN termination jumper	128.40	13.73
SW1	Reset switch	81.90	31.93

Reference datum

X and Y are footprint reference positions measured from the PCB top-left corner.
Grouped connector coordinates are representative group locations; use PCB data for individual pin geometry.

SOURCE AND TOLERANCE NOTES

- Outline and mounting-hole data are taken from the imported KiCad PCB derived from the original Altium data.
- Connector coordinates use footprint positions from the KiCad placement export.
- Verify connector bodies, latch access and cable bend radius before cutting an enclosure.
- Unless otherwise specified, allow at least 0.20 mm fabrication clearance around the bare PCB.