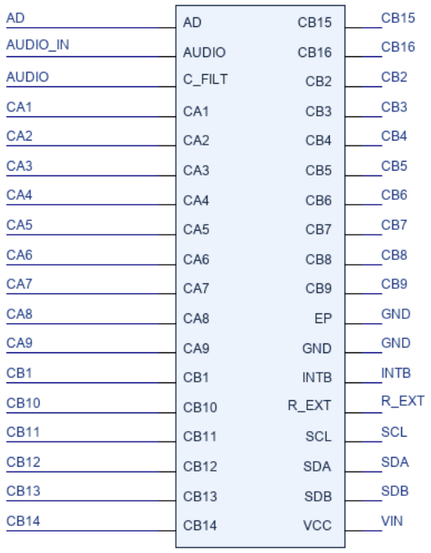
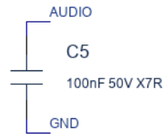
Main Circuit And Support

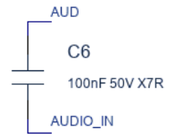
JP3
Solder jumper



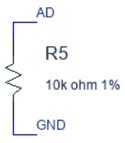
U1
IS31FL3731 144-LED charlieplex matrix driver, 8-bit PWM, I2C

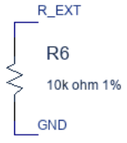


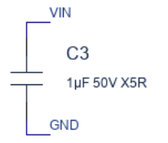


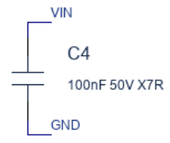


Main Circuit And Support

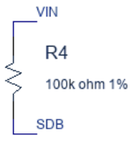


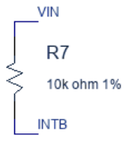






Main Circuit And Support





DESIGN NOTES

Matching net labels identify connected signals.

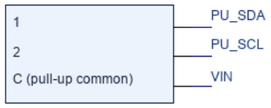
Assembly and DNP details are stored with each component.

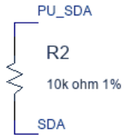
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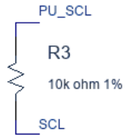
PROJECT / DOCUMENT			STATUS
Is31Fl3731 Charlieplex Driver			DESIGN REVIEW
DRAWN BY	CHECKED BY	DATE	REVISION
ElectroTrical	-	2026-11-12	A
DOCUMENT NUMBER		FORMAT	SHEET
ET-D17-SCH-001		A3 / LANDSCAPE	1 of 3

Level Shifting And Pull-Ups

JP2
Solder jumper



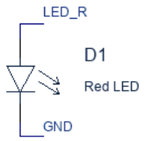


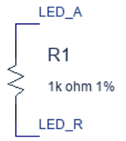


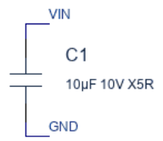
Power And Indicators

JP1
Solder jumper



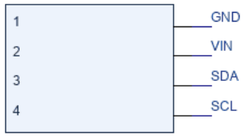




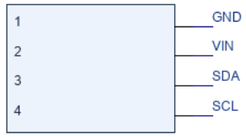


Connectors

J1
JST SH 4P R/A (Qwiic/STEMMA QT)

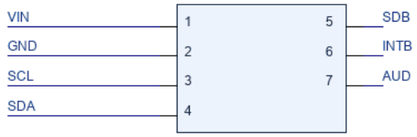


J2
JST SH 4P R/A (Qwiic/STEMMA QT)



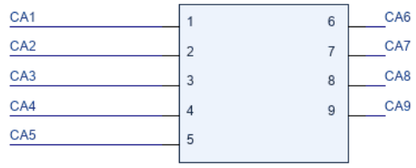
J3
DNP

2.54mm male pin header (ship loose)



J4
DNP

2.54mm male pin header (ship loose)



DESIGN NOTES

Matching net labels identify connected signals.

Assembly and DNP details are stored with each component.

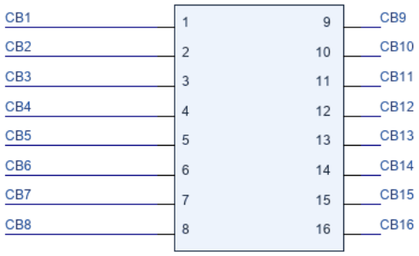
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PROJECT / DOCUMENT			STATUS
Is31Fl3731 Charlieplex Driver			DESIGN REVIEW
DRAWN BY	CHECKED BY	DATE	REVISION
ElectroTrical	-	2026-11-12	A
DOCUMENT NUMBER		FORMAT	SHEET
ET-D17-SCH-002		A3 / LANDSCAPE	2 of 3

Connectors

J5 DNP

2.54mm male pin header (ship loose)



DESIGN NOTES

Matching net labels identify connected signals.

Assembly and DNP details are stored with each component.

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PROJECT / DOCUMENT			STATUS
Is31Fl3731 Charlieplex Driver			DESIGN REVIEW
DRAWN BY	CHECKED BY	DATE	REVISION
ElectroTrical	-	2026-11-12	A
DOCUMENT NUMBER		FORMAT	SHEET
ET-D17-SCH-003		A3 / LANDSCAPE	3 of 3