SCS OLED module

Combination of 0.96“ SSD1306 OLEDs and switches for an SCS

Schematic

Refer to the SCS schematic or below for J1/button and encoder pinning and the Core module (J15) for J5/OLEDs.

BOM v1.0

Type	Part	Value
Caps	C25	DNF
	C26	DNF
	C29	10uF polarised
Encoder	EN1	12mm
	EN2	12mm
Header	J1	PINHD-2X54WALL
	J2	+5V
	J5	PINHD-2X54WALL
OLEDs	LCD1	0.96_OLED
	LCD2	0.96_OLED
	LCD3	0.96_OLED
	LCD4	0.96_OLED
Resistors	R3	DNF
	R4	DNF
	R7	DNF
	R9	2k2
Switches	S1(A)	DT6 or 6mm
	S2(A)	DT6 or 6mm
	S3(A)	DT6 or 6mm
	S4(A)	DT6 or 6mm
	S5(A)	DT6 or 6mm
	S6(A)	DT6 or 6mm

Versions

v1.0: first release

Assembly

Decide on the configuration to be used. Any combination of switches, encoders or OLEDs is possible if they fit.

Only one encoder is wired to the J1 header. If you want to use the EN2 position, wire the legs to the empty EN1 solder points.

R9 and C29 form the power-on reset for OLEDs. R7 should not be installed. R3/C25/R4/C26 form a termination shunt for OLED data lines. They shouldn't be required.

The switches accommodate either DT6 or 6mm switches (obviously only one type!). For DT6 switches, ensure the flat side is aligned with the PCB silkscreen.

J2 can supply power if needed.

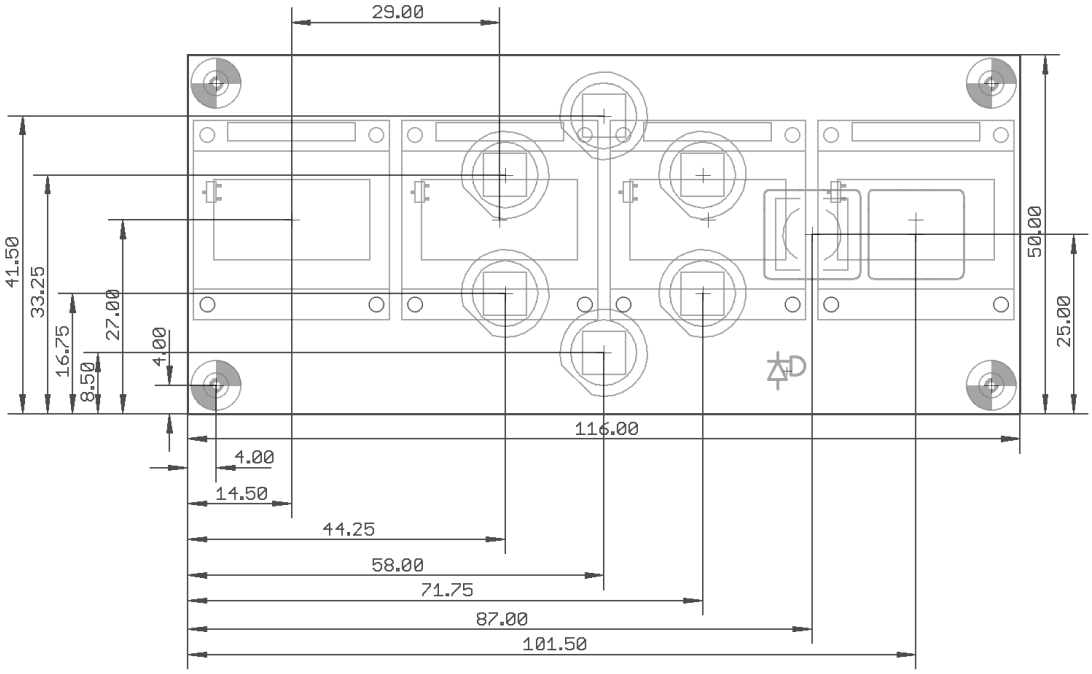
Interconnections

J1 is the SCS header, connecting to J10A

J2 can provide power as indicated; it is also connected on J5.

J5 connects to J15 on the Core (or equivalent)

Dimensions



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