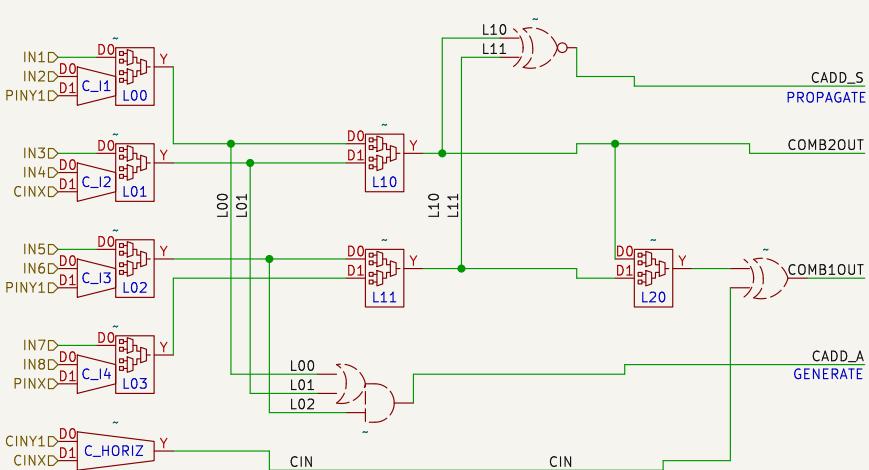


YosysHQ
Sheet: /CPE11/C_FUNCTION=0 or 6/
File: cpe_comb.kicad_sch
Title: CPE: Default Mode
Size: A4 Date:
KiCad E.D.A. 9.0.7 Rev: 4
Id: 3/129



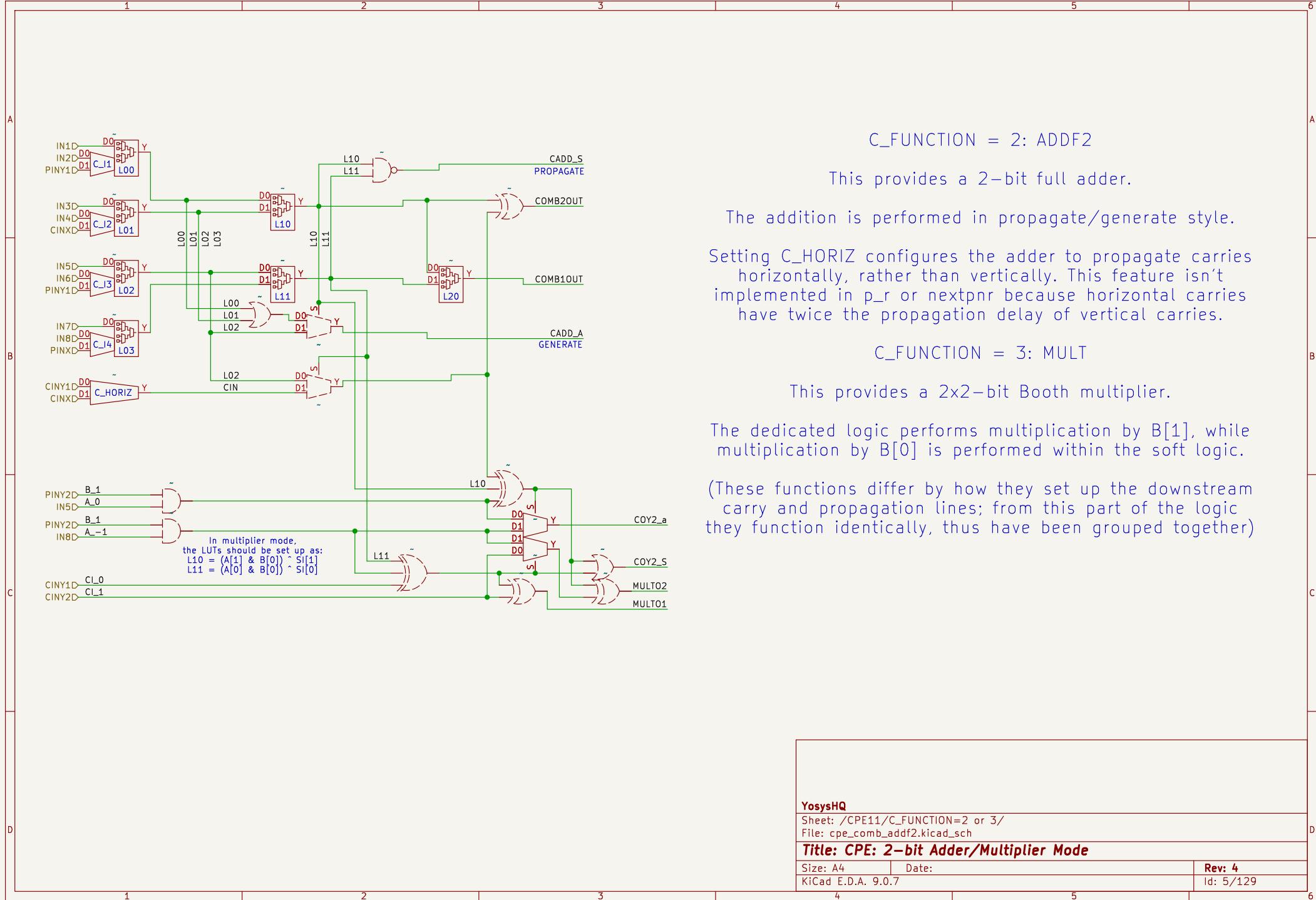
YosysHQ

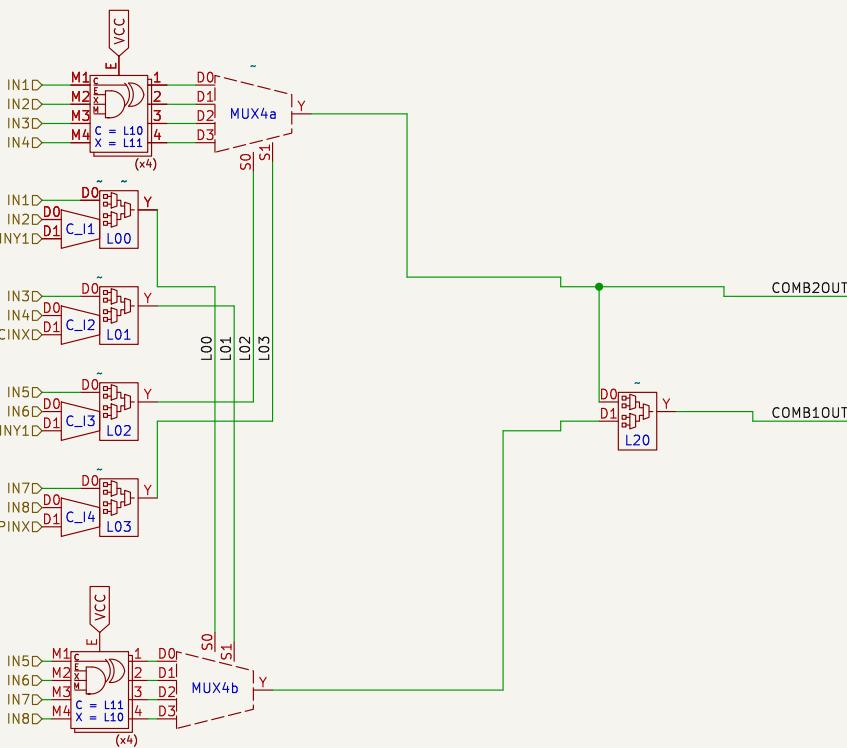
Sheet: /CPE11/C_FUNCTION=1 or 7/
File: cpe_comb_addcin.kicad_sch

Title: CPE: Sum Output With Carry

Size: A4 Date:
KiCad E.D.A. 9.0.7

Rev: 4
Id: 4/129





C_FUNCTION = 4: MUX4

This provides a four-input multiplexer.

Input inversion is performed by setting the relevant config bit of the C input, while constant inputs are masked by clearing the relevant config bit of the X input.

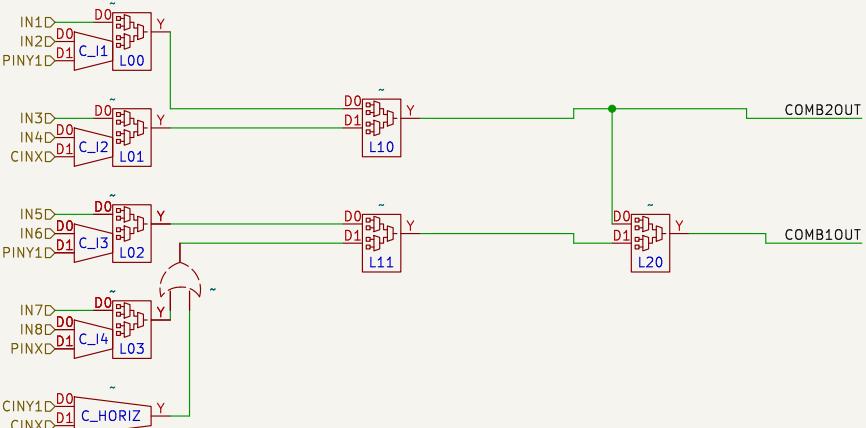
YosysHQ

Sheet: /CPE11/C_FUNCTION=4/
File: cpe_comb_mux4.kicad_sch

Title: CPE: 4-Input Multiplexer Mode

Size: A4 Date:
KiCad E.D.A. 9.0.7

Rev: 4
Id: 6/129



C_FUNCTION = 5: EN_CIN

This is one of the more obscure CPE configurations.
The intended usecase of this is to source a signal from the carry lines to reduce routing delay.

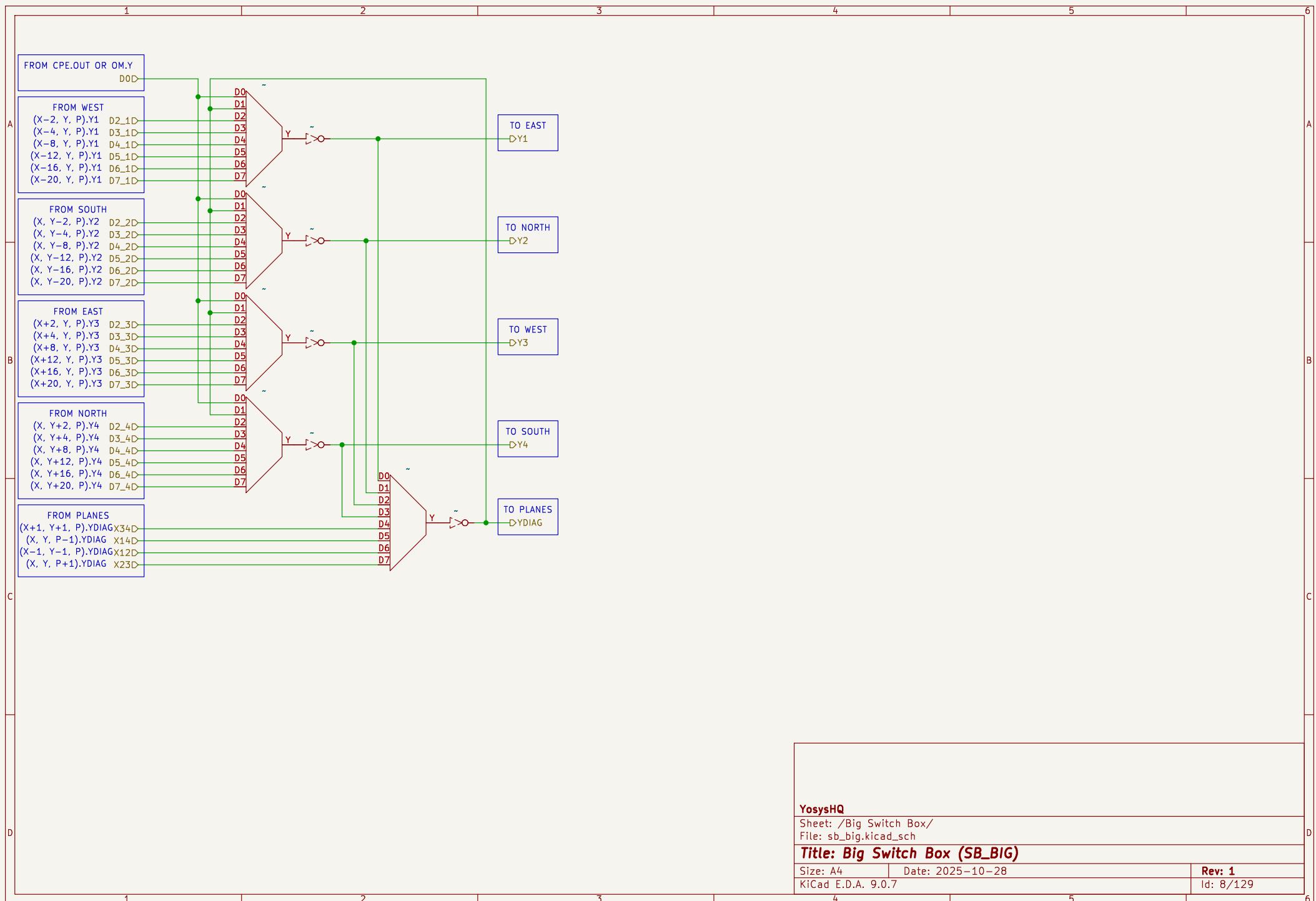
YosysHQ

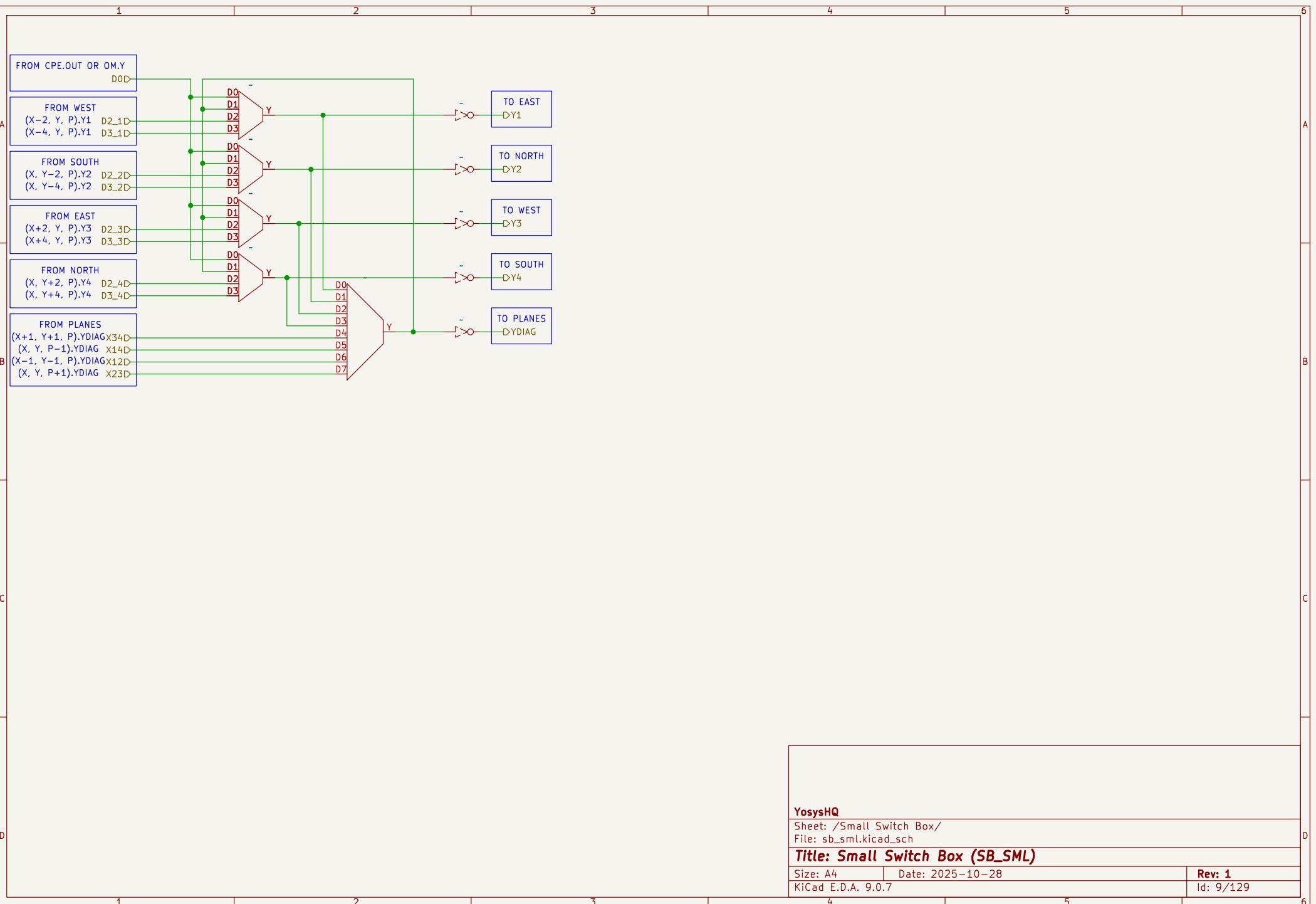
Sheet: /CPE11/C_FUNCTION=5/
File: cpe_comb_en_cin.kicad_sch

Title: CPE: Sum Input With Carry

Size: A4 Date:
KiCad E.D.A. 9.0.7

Rev: 4
Id: 7/129





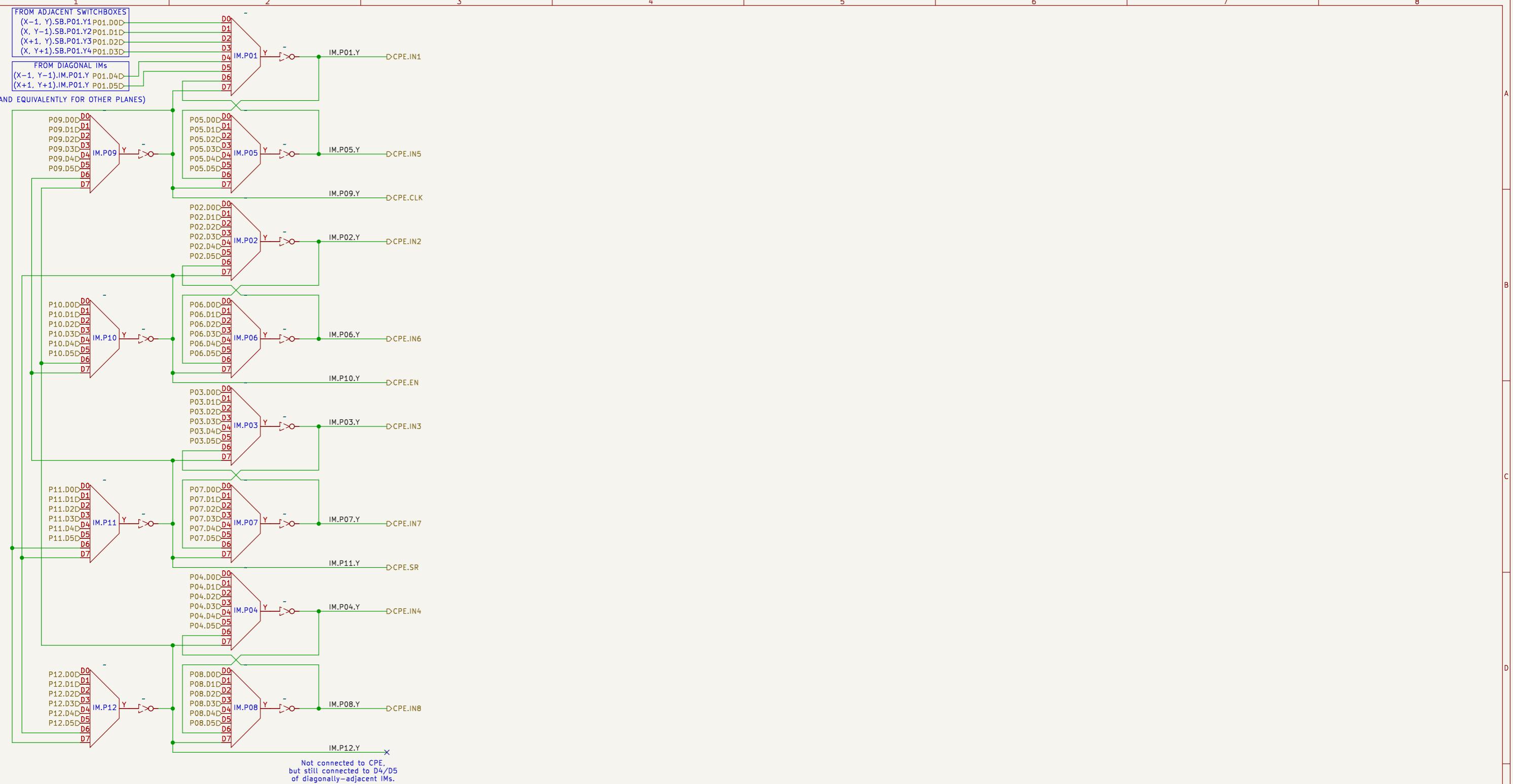
YosysHQ

Sheet: /Small Switch Box/
File: sb_sml.kicad_sch

Title: Small Switch Box (SB_SML)

Size: A4 | Date: 2025-10-28
KiCad E.D.A. 9.0.7

Rev: 1
Id: 9/129



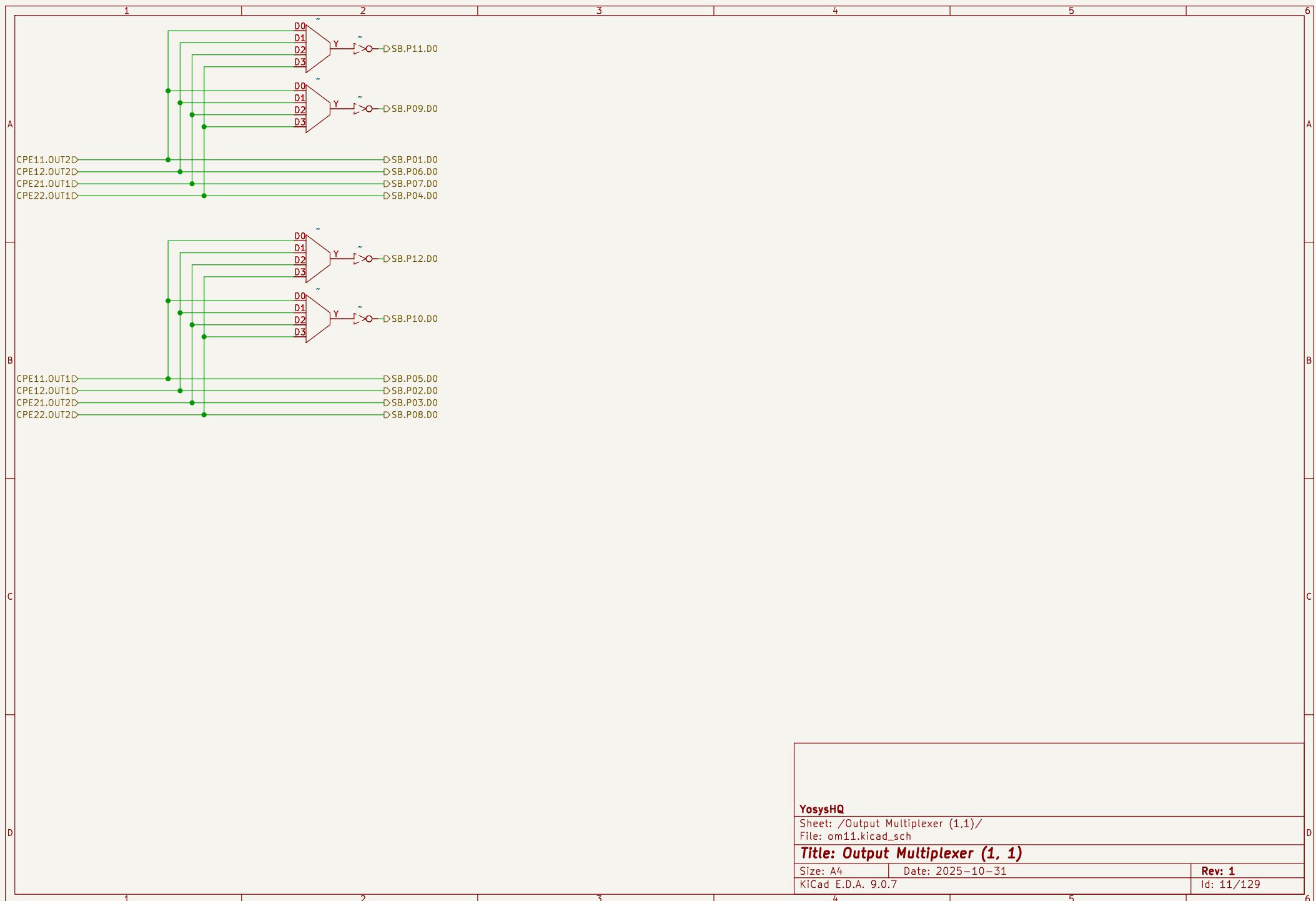
YosysHQ

Sheet: /Input Multiplexer/
 File: im.kicad_sch

Title: Input Multiplexer (IM)

Size: A3 | Date:
 KiCad E.D.A. 9.0.7

Rev: 1 | Id: 10/129



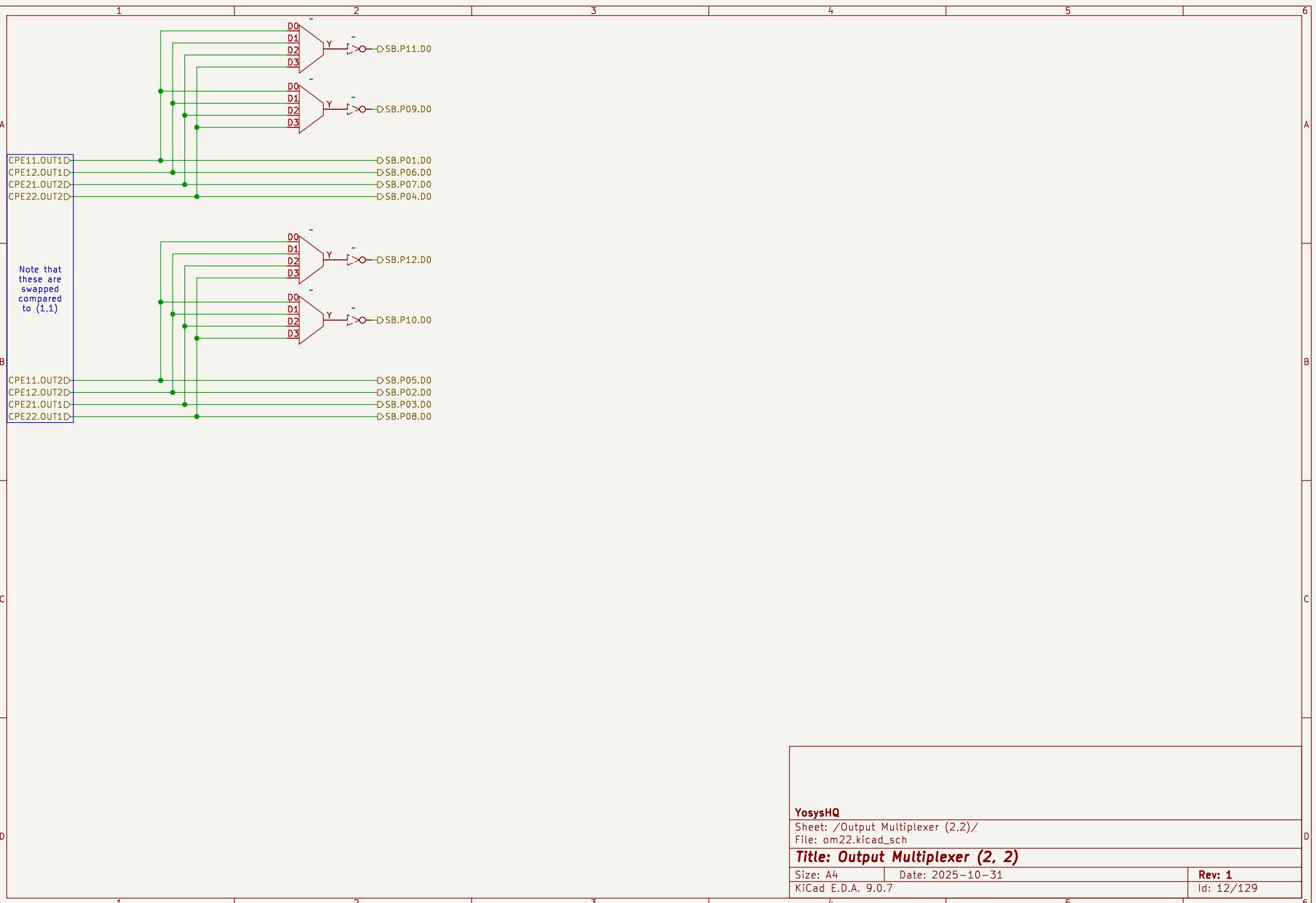
YosysHQ

Sheet: /Output Multiplexer (1.1)/
File: om11.kicad_sch

Title: Output Multiplexer (1, 1)

Size: A4 | Date: 2025-10-31
KiCad E.D.A. 9.0.7

Rev: 1
Id: 11/129



YosysHQ

Sheet: /Output Multiplexer (2,2)/
File: om22.kicad_sch

Title: Output Multiplexer (2, 2)

Size: A4 Date: 2025-10-31
KiCad E.D.A. 9.0.7

Rev: 1
Id: 12/129