

The 007786 scans for valid object data:

- Object (sprite) code,
- palette,
- position and
- attributes

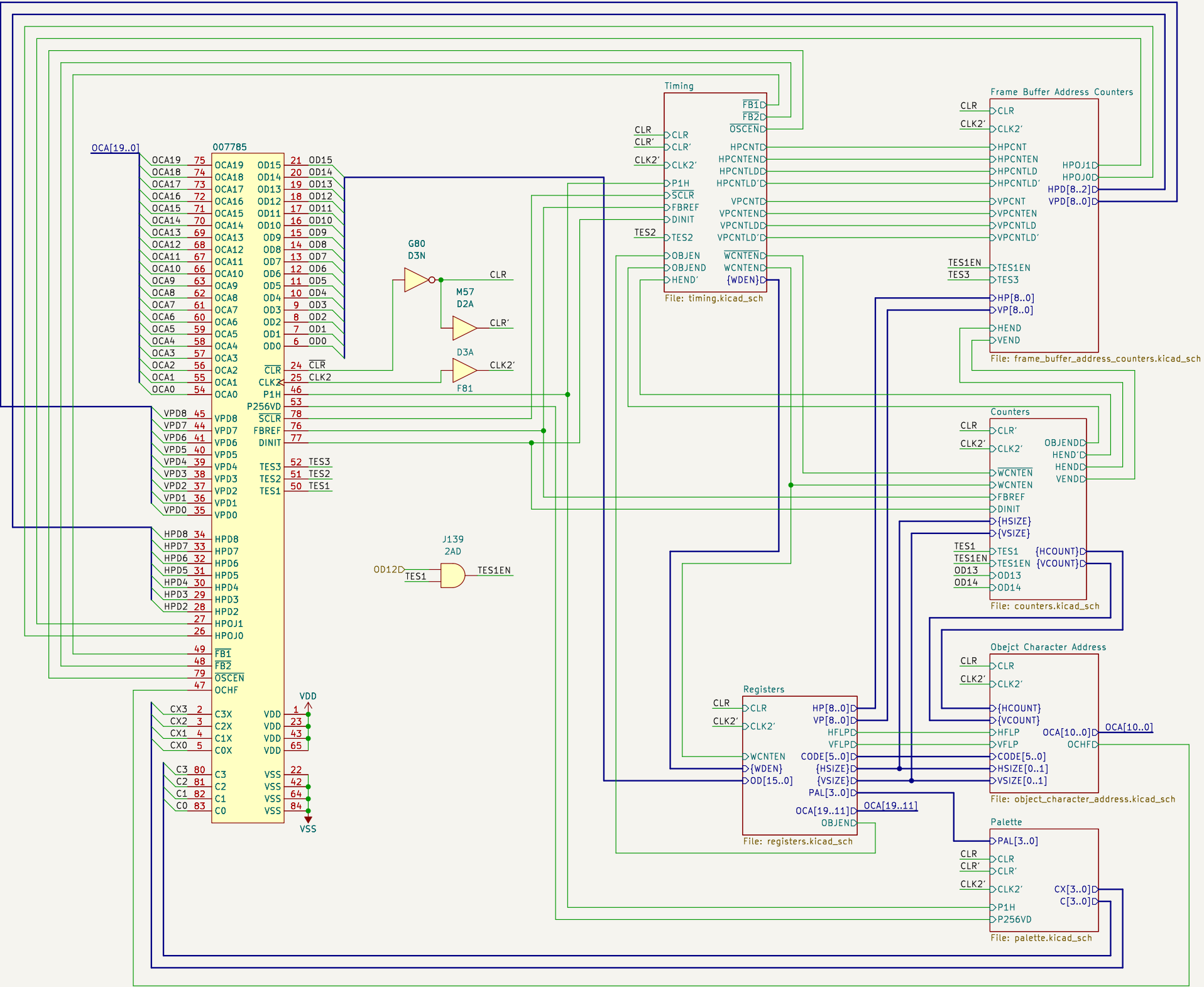
It translates it into:

- Individual object character (tiles) color code,
- Palette values
- object character address

This is copied into the frame buffers with the 007786.

1. SCLR (OSCANCLR) starts the obeit scanning process.
2. OSCEN is activated when each of the four words to be scanned are to be read. The 007783 increments the address.

The 007786 uses an OKI 79V000 gate cell array with 3289 unit cells.



Ulf Skutnabba, twitter: @skutis77

Sheet: /  
File: 007785.kicad\_sch

Title: Konami 007785

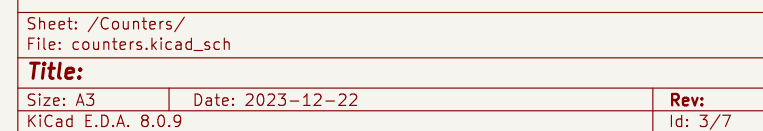
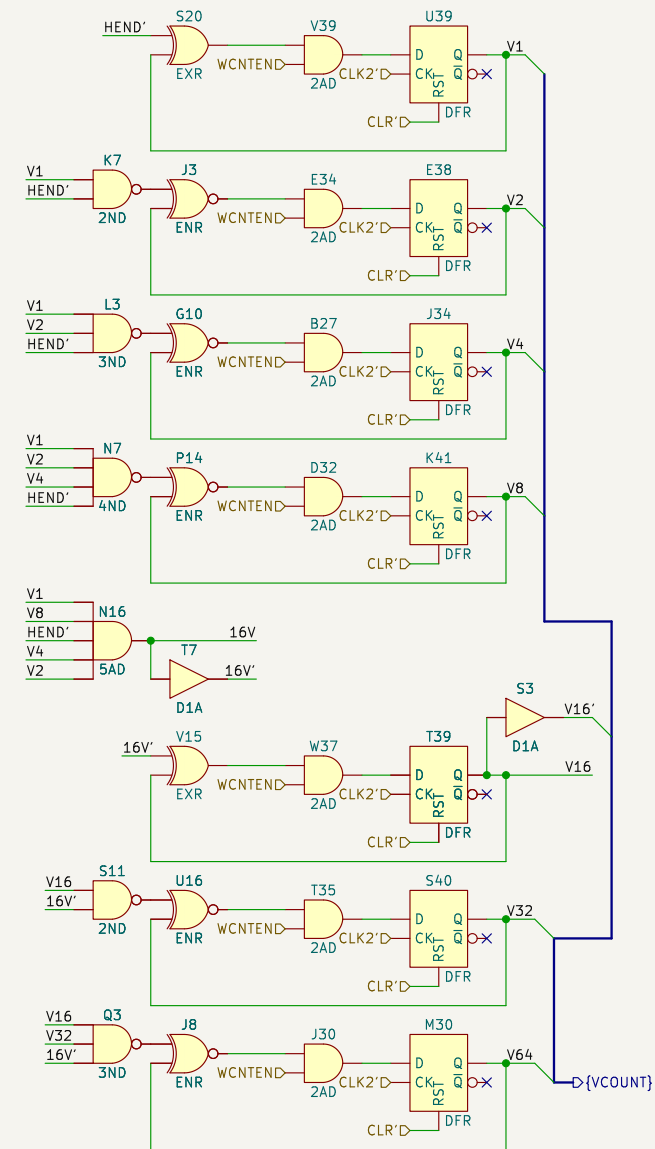
Size: A3 Date: 2023-12-22

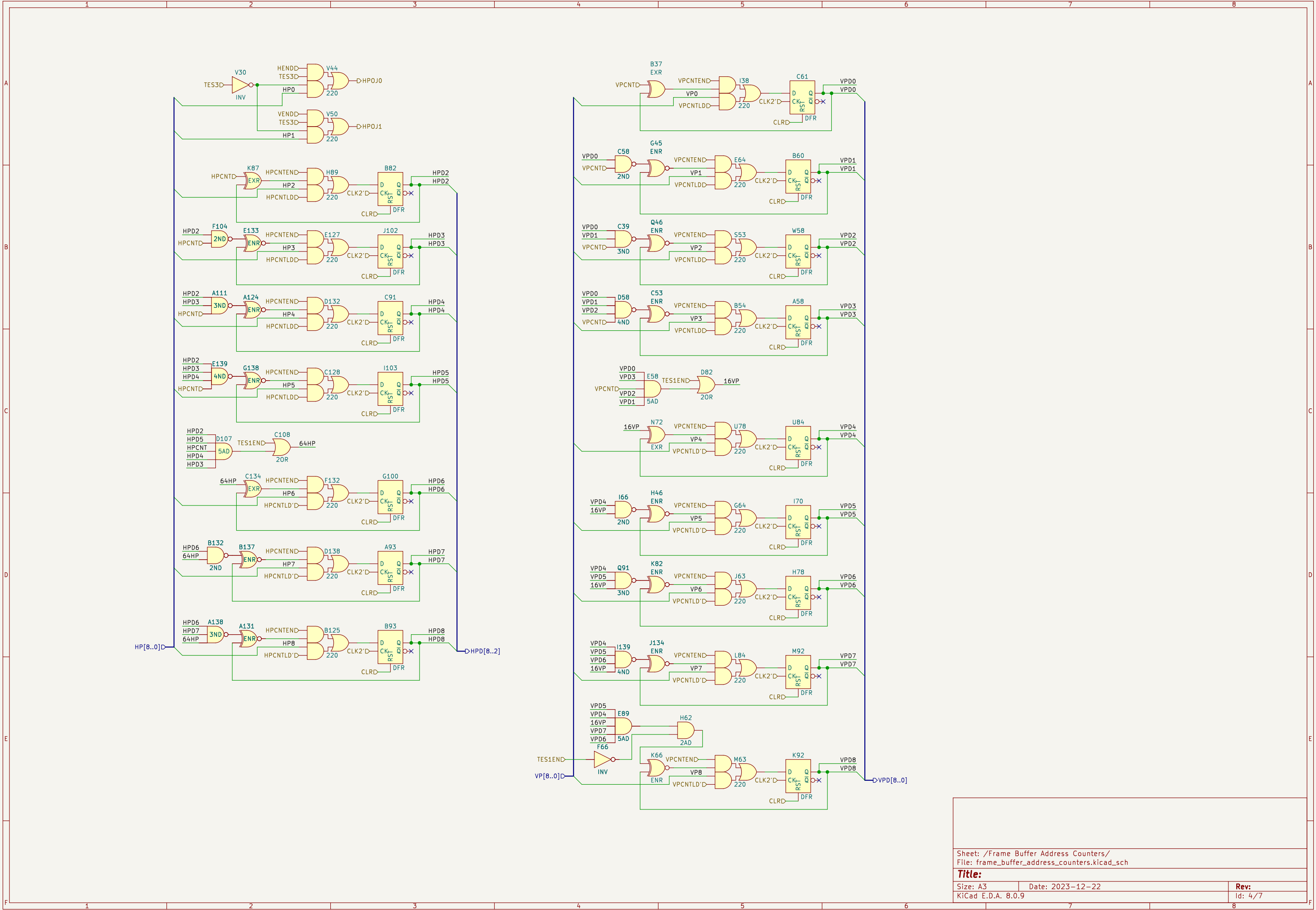
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# Object Character Select Address

Object (Sprite) tiles are called characters on the twin16 platform.

VSIZE1	VSIZE0	VSIZE	HSIZE1	HSIZE0	HSIZE	OCA2	OCA1	OCA0		
0	0	16	0	0	16	0	0	0	0	16H16V
0	0	16	0	1	32	0	1	1	1	32H16V
0	0	16	1	0	64	0	1	0	2	64H16V
0	0	16	1	1	128	0	1	1	3	128H16V
0	1	32	0	0	16	1	0	0	4	16H32V
0	1	32	0	1	32	1	0	1	5	32H32V
0	1	32	1	0	64	0	1	0	2	64H32V
0	1	32	1	1	128	0	1	1	3	128H32V
1	0	64	0	0	16	0	1	0	2	16H64V
1	0	64	0	1	32	0	1	1	3	32H64V
1	0	64	1	0	64	1	1	0	6	64H64V
1	0	64	1	1	128	1	1	1	7	128H64V
1	1	128	0	0	16	1	1	0	6	16H128V
1	1	128	0	1	32	1	1	1	7	32H128V
1	1	128	1	0	64	1	1	0	6	64H128V
1	1	128	1	1	128	1	1	1	7	128H128V

Size

16H16V

32H16V

16H32V

32H32V

64H16V, 64H32V, 16H64V

128H16V, 128H32V, 32H64V

64H64V, 16H128V, 64H128V

128H64V, 32H128V, 128H128V

OCA0	OCA1	OCA2	OCA3	OCA4	OCA5	OCA6	OCA7	OCA8	OCA9	OCA10
H8F	V1F	V2F	V4F	V8F	CODE0	CODE1	CODE2	CODE3	CODE4	CODE5
H8F	V1F	V2F	V4F	V8F	V8F	CODE1	CODE2	CODE3	CODE4	CODE5
H8F	V1F	V2F	V4F	V8F	V16F	CODE1	CODE2	CODE3	CODE4	CODE5
H8F	V1F	V2F	V4F	V8F	V16F	V16F	CODE2	CODE3	CODE4	CODE5
H8F	V1F	V2F	V4F	V8F	V16F	V16F	V16F	CODE3	CODE4	CODE5
H8F	V1F	V2F	V4F	V8F	V16F	V16F	V16F	V16F	CODE4	CODE5
H8F	V1F	V2F	V4F	V8F	V16F	V16F	V16F	V16F	V16F	CODE5
H8F	V1F	V2F	V4F	V8F	V16F	V16F	V16F	V16F	V16F	V16F

Sheet: /Obejct Character Address/  
File: object\_character\_address.kicad\_sch

Title:

Size: A3

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<b>Title:</b>		
Size: A3	Date: 2023-12-22	<b>Rev:</b>
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