

The 007786 scans for valid object data:

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

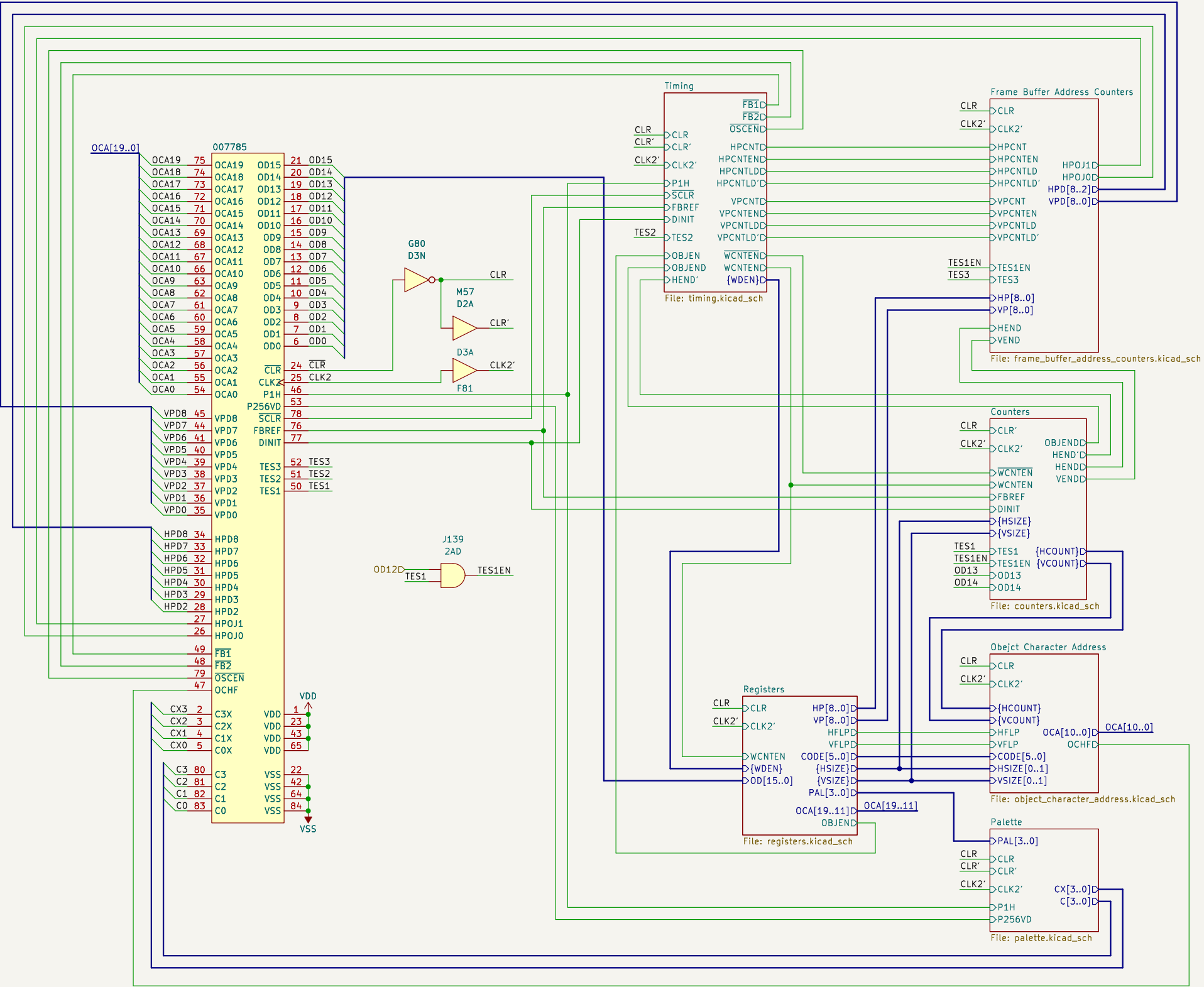
It translates it into:

- 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 obejct 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.



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Sheet: /
File: 007785.kicad_sch

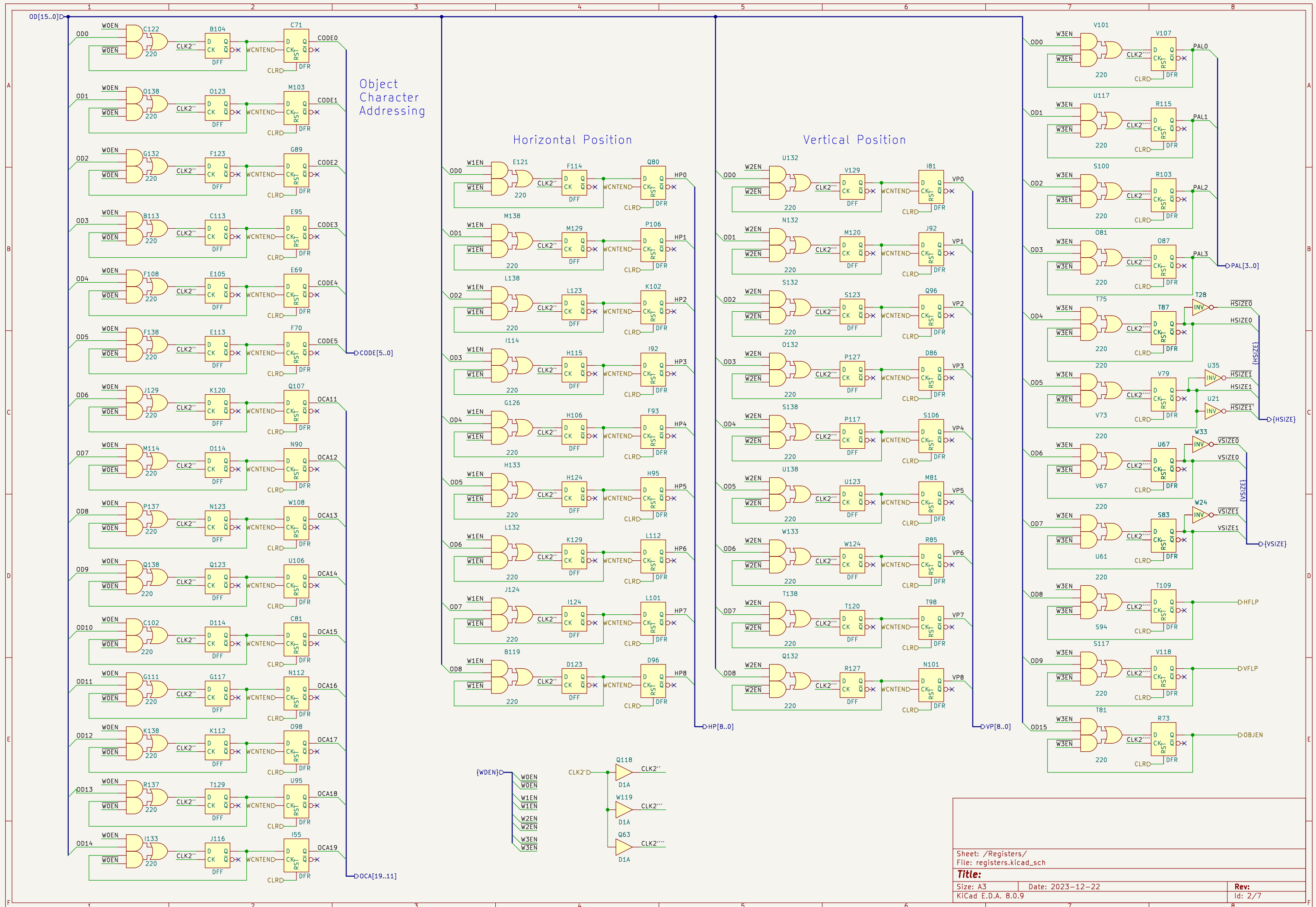
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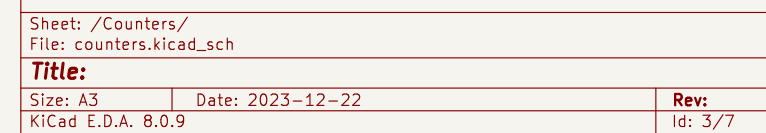
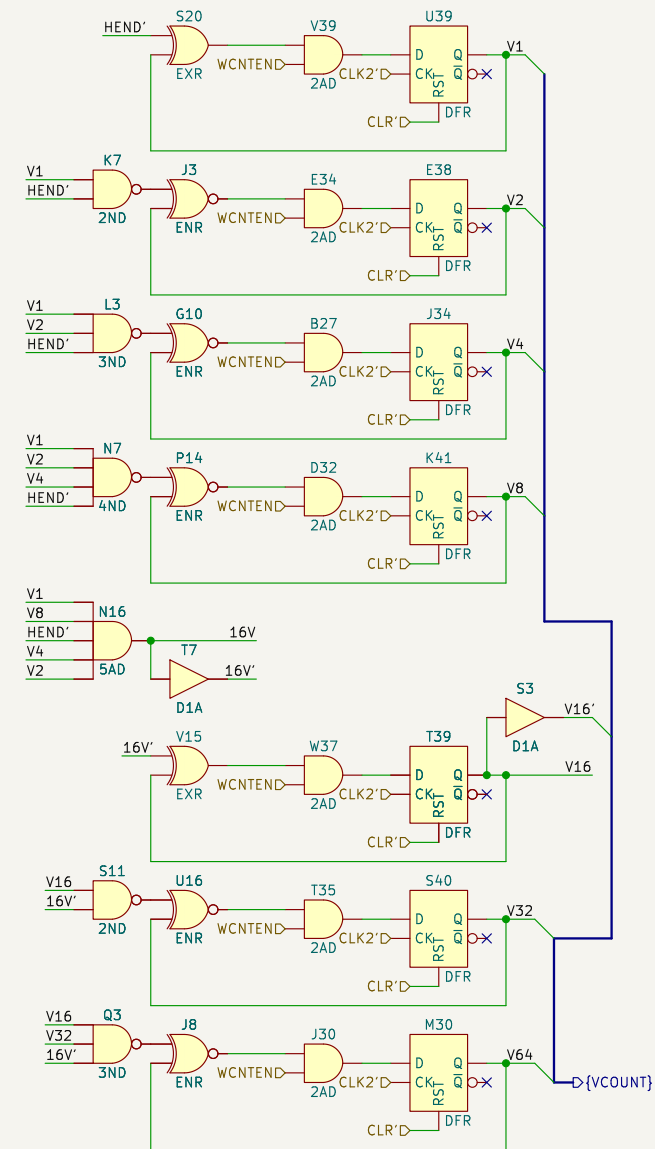
Size: A3 Date: 2023-12-22

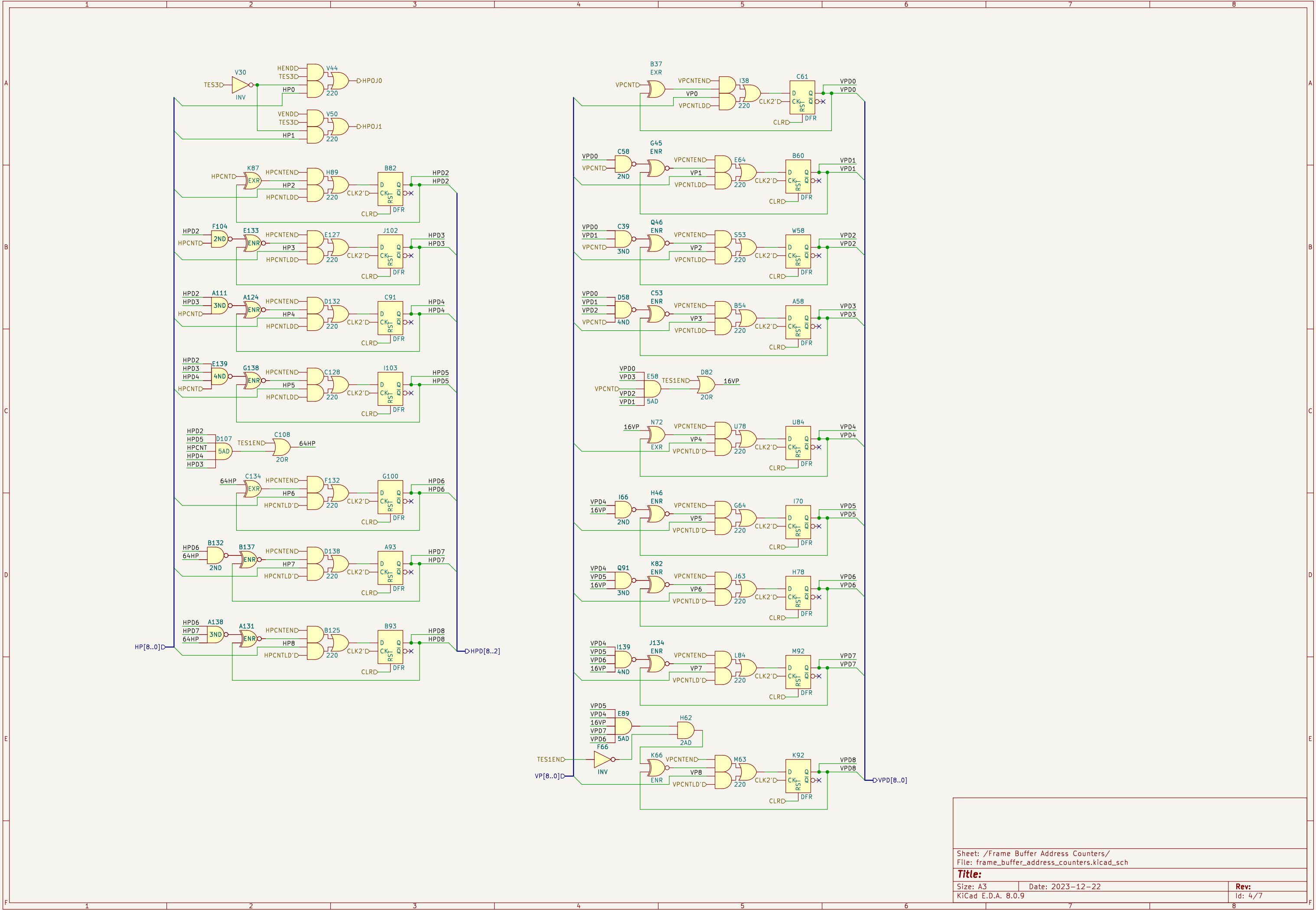
KiCad E.D.A. 8.0.9

Rev:

Id: 1/7

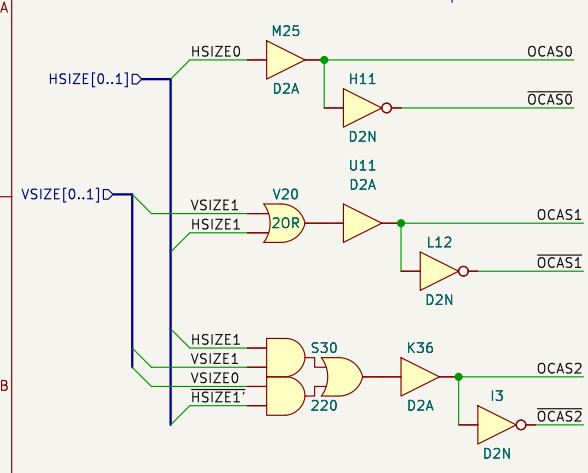




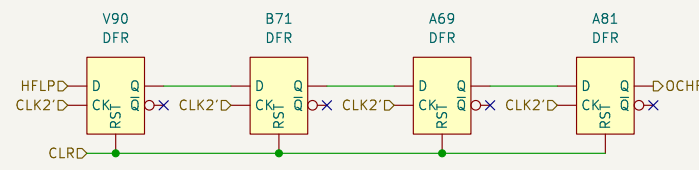
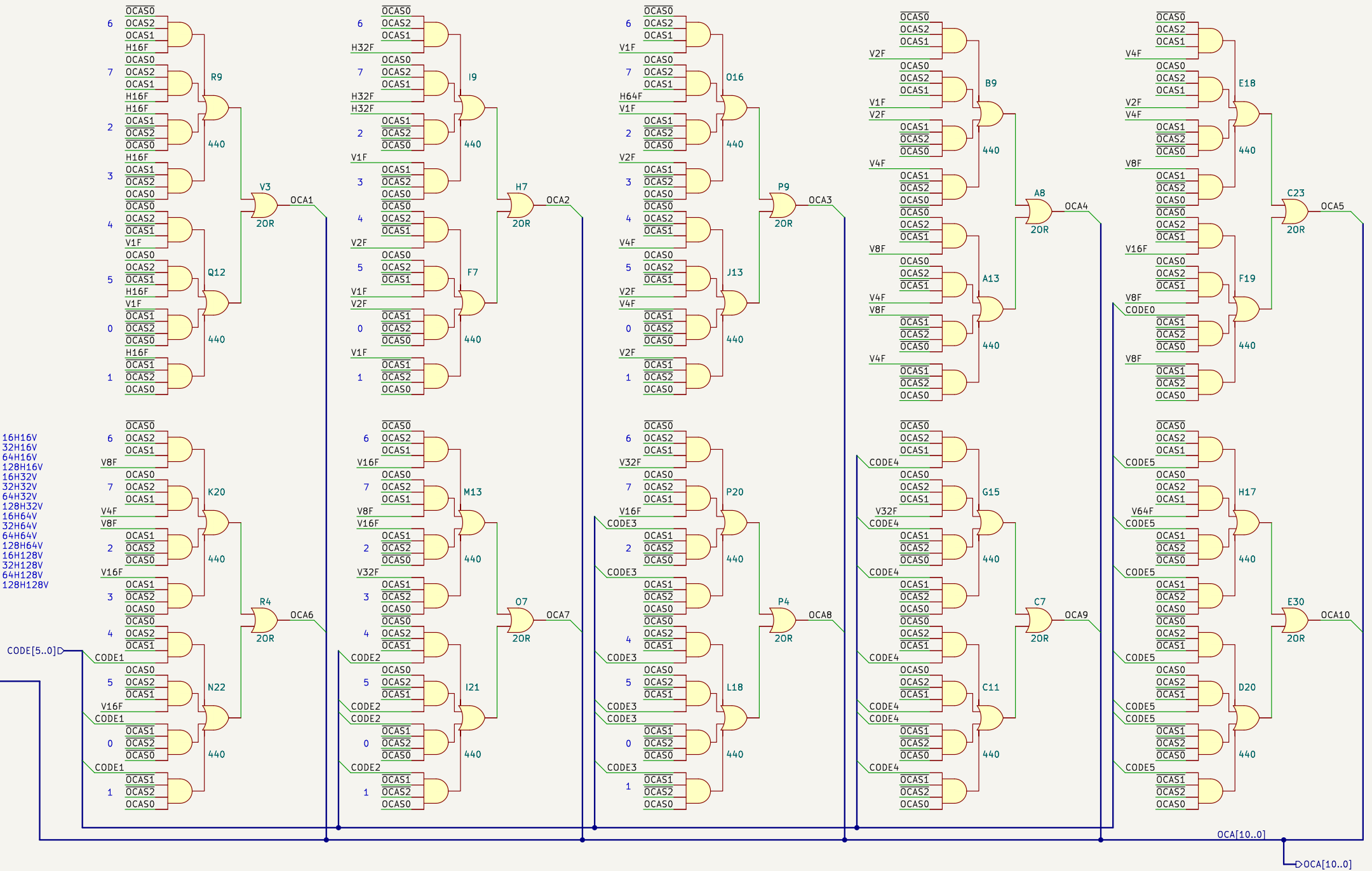
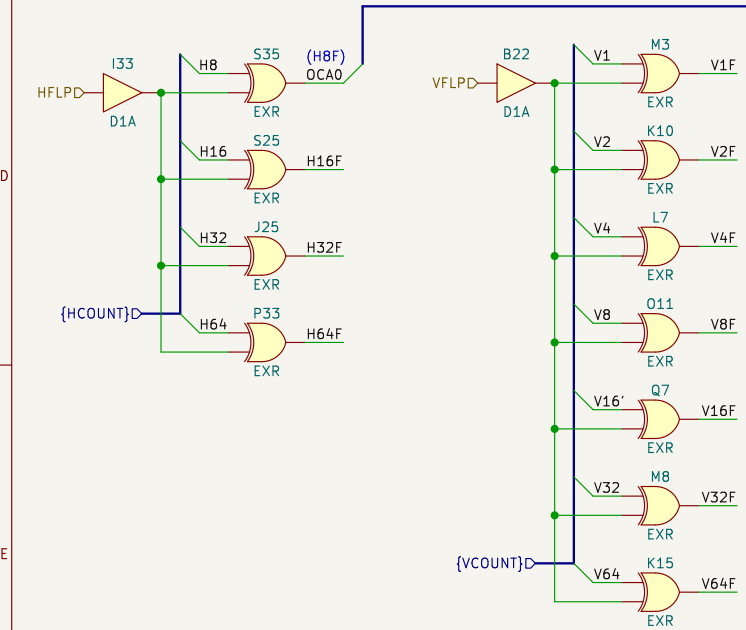


Object Character Select Address

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
0	0	16	1	0	32	0	0	1	1
0	0	16	1	1	64	1	1	0	2
0	0	16	1	1	128	1	1	1	3
0	1	32	0	0	16	1	0	0	4
0	1	32	0	1	32	1	0	1	5
0	1	32	1	0	64	0	1	0	2
0	1	32	1	1	128	0	1	1	3
1	0	64	0	0	16	0	1	0	6
1	0	64	0	1	32	0	1	1	7
1	0	64	1	0	64	1	1	0	6
1	0	64	1	1	128	1	1	1	7
1	1	128	0	0	16	1	1	0	6
1	1	128	0	1	32	1	1	1	7
1	1	128	1	0	64	1	1	0	6
1	1	128	1	1	128	1	1	1	7



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	H16F	V1F	V2F	V8F	V8F	V16F	V16F	V16F	V16F	V16F
H8F	V1F	V2F	V4F	V8F	V8F	V16F	V16F	V16F	V16F	V16F
H8F	H16F	H32F	V1F	V2F	V8F	V16F	V16F	V16F	V16F	V16F
H8F	H16F	V1F	V2F	V8F	V8F	V16F	V16F	V16F	V16F	V16F
H8F	H16F	H32F	V1F	V2F	V8F	V16F	V16F	V16F	V16F	V16F

