PROCESS UNIT

XCOL 8 → LD D / reset / clk ▷ Q 8 → RXCOL
(LD_CURSOR, reset*, clk)

RGB 16 → LD D / reset / clk ▷ Q 16 → RRGB
(LD_DRAW, reset*, clk)

YROW 9 → LD D / reset / clk ▷ Q 9 → RYROW
(LD_CURSOR, reset*, clk)

NUMPIX 17 → D / LD Q / DECPIX E / '0' UP / clk ▷ TC → ENDPIX / reset*
(LD_DRAW, DECPIX, '0', clk, reset*)

MUX inputs:
- x"002A" 16 → 0
- x"0000" 16 → 1
- x"00"&RXCOL 16 → 2
- x"002B" 16 → 3
- x"000"&"000"&RYROW$_8$ 16 → 4
- x"00"&RYROW$_{7-0}$ 16 → 5
- x"002C" 16 → 6
- RRGB 16 → 7

select: 3

'0' 16 → 1 / 16 → 0 → LCD_DATA 16
(CL_LCD_DATA)

6 3 → D / LD_2C LD / INC_DAT E / '1' UP / clk ▷ Q 3 → QDAT / TC / reset / CL
(reset*, CL_DAT)

QDAT 3 → 0 D0 / 1 D1 / 2 D2 / 3 D3 / 4 D4 / 5 D5 / 6 D6 / 7

'1' → LD D / RSDAT / RSCOM CL / clk ▷ Q → LCD_RS / reset
(reset*)