`timescale 1ns / 1ps

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// Company: Ratner Surf Designs

// Engineer: James Ratner

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// Create Date: 10/23/2018 07:39:17 PM

// Design Name:

// Module Name: stand\_dcdr\_2t4\_1hot

// Project Name:

// Target Devices:

// Tool Versions:

// Description: 2:4 standard decoder with 1-hot outputs

//

// USEAGE:

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// stand\_dcdr\_2t4\_1hot my\_stand\_dcdr (

// .SEL (my\_sel),

// .D\_OUT (my\_d\_out) );

//

// Dependencies:

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// Revision History:

// Revision 1.00 - File Created: 11-05-2018

// Additional Comments:

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//////////////////////////////////////////////////////////////////////////////////

module stand\_dcdr\_2t4\_1cold(SEL, D\_OUT);

input [1:0] SEL;

output reg [3:0] D\_OUT;

//- standard decoder for display multiplex

always @ (SEL)

begin

case (SEL)

0: D\_OUT = 4'b0001;

1: D\_OUT = 4'b0010;

2: D\_OUT = 4'b0100;

3: D\_OUT = 4'b1000;

default D\_OUT = 0;

endcase

end

endmodule