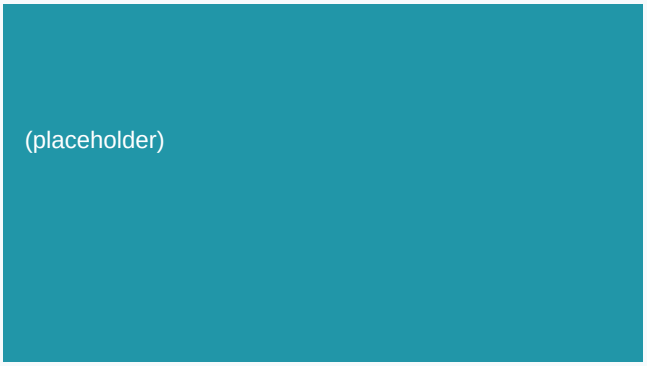
74HC595 Serial to Parallel Shifting IC

Slug: 74hc595-serial-to-parallel-shifting-ic



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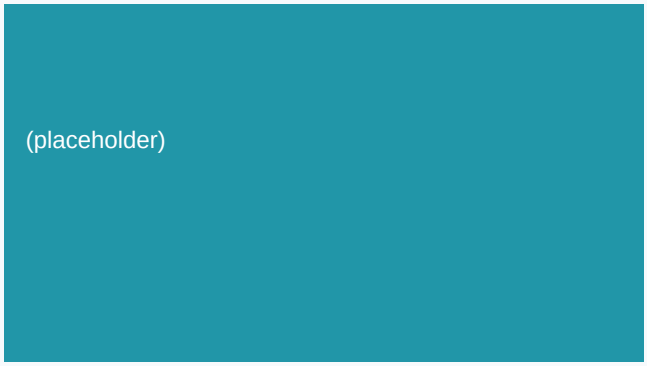

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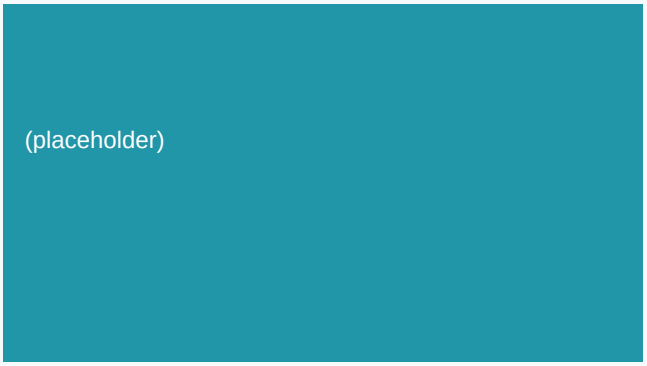
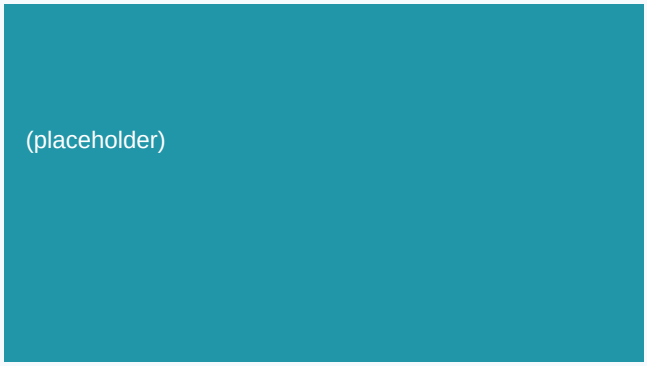


DETAIL



PINOUT

TECHNICAL SPECIFICATIONS & SUMMARY

[Logic Gates IC] DESCRIPTION:- The 74HC595N is a simple 8-bit shift register IC. Simply put, this shift register is a device that allows additional inputs or outputs to be added to a microcontroller by converting data between parallel and serial formats. Your chosen microprocessor is able to communicate with The 74HC595N using serial information then gathers or outputs information in a parallel (multi-pin) format. Essentially it takes 8 bits from the serial input and then outputs them to 8 pins. This small DIP packaged IC contains an 8-bit, serial-in-parallel-out shift register that feeds an 8-bit D-type storage register with parallel 3-state outputs.   Pin Configuration:- Pin Number Pin Name Description 1,2,3,4,5,6,7 Output Pins (Q1 to Q7) The 74hc595 has 8 output pins out of which 7 are these pins. They can be controlled serially 8 Ground Connected to the Ground of the circuit 9 (Q7) Serial Output This pin is used to connect more than one 74hc595 as cascading 10 (MR) Master Reset Resets all outputs as low. Must be held high for normal operation 11 (SH_CP) Clock This is

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