

## 4 Bit Bidirectional Universal Shift Registers Ti

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### Shift Registers - Types , Applications

These 4-bit bidirectional universal shift registers feature parallel outputs, right-shift and left-shift serial (SR SER, SL SER) inputs, operating-mode-control (S0, S1) inputs, and a direct overriding clear (CLR) line.

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#### 74LS194 4-Bit Bidirectional Universal Shift Register

4–Bit Bidirectional Universal Shift Register The SN74LS194A is a High Speed 4-Bit Bidirectional Universal Shift Register. As a high speed multifunctional sequential building block, it is useful in a wide variety of applications. It may be used in serial-serial, shift left, shift right, serial-parallel, parallel-serial, and

#### 1. General description

Today, there are many high speed bi-directional “universal” type Shift Registers available such as the TTL 74LS194, 74LS195 or the CMOS 4035 which are available as 4-bit multi-function devices that can be used in either serial-to-serial, left shifting, right shifting, serial-to-parallel, parallel-to-serial, or as a parallel-to-parallel multifunction data register, hence their name ...

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Universal Shift Register is a register which can be configured to load and/or retrieve the data in any mode (either serial or parallel) by shifting it either towards right or towards left. In other words, a combined design of unidirectional (either right- or left-shift of data bits as in case of SISO, SIPO, PISO, PIPO) and bidirectional shift register along with parallel load provision is ...

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