

Product Overview

MC74LCX14: Low Voltage CMOS Hex Inverter with 5.0 V-Tolerant Input and Schmitt Trigger Input

For complete documentation, see the data sheet.

The MC74LCX14 is a high performance hex inverter with Schmitt-Trigger inputs operating from a 2.7 to 3.6 V supply. High impedance TTL compatible inputs significantly reduce current loading to input drivers, while TTL compatible outputs offer improved switching noise performance. A V_I specification of 5.5 V allows MC74LCX14 inputs to be safely driven from 5 V devices.

Pin configuration and function are the same as the MC74LCX04, but the inputs have hysteresis and, with its Schmitt trigger function, the LCX14 can be used as a line receiver which will receive slow input signals.

Features

- Designed for 2.3 V to 3.6 V V_{CC} Operation
- 5 V Tolerant Inputs - Interface Capability With 5 V TTL Logic
- LVTTTL Compatible
- LVCMOS Compatible
- 24 mA Balanced Output Sink and Source Capability
- Near Zero Static Supply Current (10 μ A) Substantially Reduces System Power Requirements
- Latch Performance Exceeds 500 mA
- Current Drive Capability is 24 mA at the Outputs
- Pin and Function Compatible with Other Standard Logic Families
- ESD Performance: HBM > 2000 V; Machine Model > 100 V

For more features, see the data sheet

Part Electrical Specifications

Product	Compliance	Status	Type	Channels	V_{CC} Min (V)	V_{CC} Max (V)	t_{pd} Max (ns)	I_O Max (mA)	Package Type
MC74LCX14DG	Pb-free	Active	Inverter	6	2	3.6	6.5	24	SOIC-14
	Halide free								
MC74LCX14DR2G	Pb-free	Active	Inverter	6	2	3.6	6.5	24	SOIC-14
	Halide free								
MC74LCX14DTG	Pb-free	Active	Inverter	6	2	3.6	6.5	24	TSSOP-14
	Halide free								
MC74LCX14DTR2G	Pb-free	Active	Inverter	6	2	3.6	6.5	24	TSSOP-14
	Halide free								

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