

## Product Overview

### MC74LCX245: Octal Transceiver, CMOS, Low Voltage

For complete documentation, see the data sheet.

The MC74LCX245 is a high performance, non-inverting octal transceiver operating from a 2.0 to 5.5V 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 5.5V allows MC74LCX245 inputs to be safely driven from 5V devices. The MC74LCX245 is suitable for memory address driving and all TTL level bus oriented transceiver applications.

Current drive capability is 24mA at both A and B ports. The Transmit/Receive (T/Rbar) input determines the direction of data flow through the bi-directional transceiver. Transmit (active-HIGH) enables data from A ports to B ports; Receive (active-LOW) enables data from B to A ports. The Output Enable input, when HIGH, disables both A and B ports by placing them in a HIGH Z condition.

### Features

- Designed for 2.0 to 5.5V  $V_{CC}$  Operation
- 5V Tolerant Interface Capability With 5V TTL Logic
- Supports Live Insertion and Withdrawal
- $I_{OFF}$  Specification Guarantees High Impedance When  $V_{CC} = 0V$
- LVTTTL Compatible
- LVCMOS Compatible
- 24mA Balanced Output Sink and Source Capability
- Near Zero Static Supply Current in All Three Logic States (10 $\mu$ A) Substantially Reduces System Power Requirements
- Latchup Performance Exceeds 500mA
- ESD Performance: Human Body Model >2000V; Machine Model >200V PIN

For more features, see the data sheet

### Part Electrical Specifications

Product	Compliance	Status	Channels	Output	$V_{CC}$ Min (V)	$V_{CC}$ Max (V)	$t_{pd}$ Max (ns)	$I_O$ Max (mA)	Package Type
MC74LCX245DTG	Pb-free	Active	8	CMOS	2	3.6	7	24	TSSOP-20
	Halide free								
MC74LCX245DTR2G	Pb-free	Active	8	CMOS	2	3.6	7	24	TSSOP-20
	Halide free								
MC74LCX245DWG	Pb-free	Active	8	CMOS	2	3.6	7	24	SOIC-20W
	Halide free								
MC74LCX245DWR2G	Pb-free	Active	8	CMOS	2	3.6	7	24	SOIC-20W
	Halide free								
MC74LCX245MNTWG	Pb-free	Active	8	CMOS	2	3.6	7	24	QFN-20
	Halide free								
NLV74LCX245DTR2G	AEC Qualified PPAP Capable Pb-free Halide free	Active	8	3-State	2	3.6	7	24	TSSOP-20

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