

Buffer/Line Driver 16-CH Non-Inverting 3-ST CMOS 48-Pin TSSOP W T/R

Manufacturers	ON Semiconductor, LLC
Package/Case	TSSOP-48
Product Type	Logic ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for 74LCX16244MTDX or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The MC74LCX16244 is a high performance, non-inverting 16-bit buffer operating from a 2.3 to 3.6V supply. The device is nibble controlled. Each nibble has separate Output Enable inputs which can be tied together for full 16-bit operation. High impedance TTL compatible inputs significantly reduce current loading to input drivers while TTL compatible outputs offer improved switching noise performance. A VI specification of 5.5V allows MC74LCX16244 inputs to be safely driven from 5V devices. The MC74LCX16244 is suitable for memory address driving and all TTL level bus oriented transceiver applications. The 4.5ns maximum propagation delays support high performance applications. Current drive capability is 24mA at the outputs. The Output Enable (OEn)bar inputs, when HIGH, disable the outputs by placing them in a HIGH Z condition. The MC74LCX16244 contains sixteen non-inverting buffers with 3-state 5V-tolerant outputs. The device is nibble controlled with each nibble functioning identically, but independently. The control pins may be tied together to obtain full 16-bit operation. The 3-state outputs are controlled by an Output Enable (OEn)bar input for each nibble. When OEnbar is LOW, the outputs are on. When OEnbar is HIGH, the outputs are in the high impedance state.

Features

Designed for 2.3 to 3.6V VCC Operation

4.5ns Maximum tpd

5V Tolerant - Interface Capability With 5V TTL Logic

Supports Live Insertion and Withdrawal

IOFF Specification Guarantees High Impedance When>

LVTTTL Compatible

LVC MOS Compatible

24mA Balanced Output Sink and Source Capability

Near Zero Static Supply Current in All Three Logic States (20mA) Substantially Reduces System Power Requirements

Latchup Performance Exceeds 500mA

ESD Performance: Human Body Model >2000V; Machine Model >200V

These are Pb-Free Devices

Application

ONSEMI



Related Products



[MM74HC14MX](#)

ON Semiconductor, LLC
SOIC-14



[74LCX541MTCX](#)

ON Semiconductor, LLC
TSSOP-20



[74ACT00SC](#)

ON Semiconductor, LLC
SOIC-14



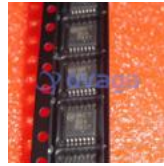
[MM74HC595MTCX](#)

ON Semiconductor, LLC
TSSOP-16



[74VHC74MTC](#)

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TSSOP-14



[MC74VHCT50ADTR2G](#)

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[74LCX125BQX](#)

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