# TinyLogic UHS Dual Inverting Buffer with 3-STATE Outputs

# **NC7WZ240**

#### Description

The NC7WZ240 is a Dual Inverting Buffer with independent active LOW enables for the 3–STATE outputs. The Ultra High Speed device is fabricated with advanced CMOS technology to achieve superior switching performance with high output drive while maintaining low static power dissipation over a broad  $V_{CC}$  operating range. The device is specified to operate over the 1.65 V to 5.5 V  $V_{CC}$  operating range. The inputs and outputs are high impedance when  $V_{CC}$  is 0 V. Inputs tolerate voltages up to 5.5 V independent of  $V_{CC}$  operating range. Outputs tolerate voltages above  $V_{CC}$  when in the 3–STATE condition.

#### **Features**

- Space Saving US8 Surface Mount Package
- MicroPak<sup>TM</sup> Pb-Free Leadless Package
- Ultra High Speed:  $t_{PD} = 2.3$  ns Typ. into 50 pF at 5 V  $V_{CC}$
- High Output Drive: ±24 mA at 3 V V<sub>CC</sub>
- Broad V<sub>CC</sub> Operating Range: 1.65 V to 5.5 V
- ullet Matches the Performance of LCX when Operated at 3.3 V  $V_{CC}$
- Power Down High Impedance Inputs / Outputs
- Overvoltage Tolerant Inputs Facilitate 5 V to 3 V Translation
- Outputs are Overvoltage Tolerant in 3-STATE Mode
- Proprietary Noise / EMI Reduction Circuitry Implemented
- These Devices are Pb-Free, Halogen Free/BFR Free and are RoHS Compliant



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#### MARKING DIAGRAMS



UQFN8 1.6X1.6, 0.5P CASE 523AY





US8 CASE 846AN



U7, WZ40 = Specific Device Code

KK = 2-Digit Lot Run Traceability Code XY = 2-Digit Date Code Format Z = Assembly Plant Code

#### **ORDERING INFORMATION**

See detailed ordering, marking and shipping information in the package dimensions section on page 6 of this data sheet.

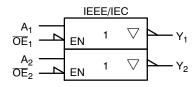


Figure 1. Logic Symbol

#### **Connection Diagrams**

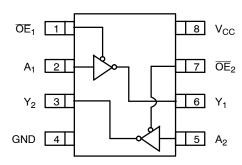


Figure 2. Pin Assignments for US8 (Top View)

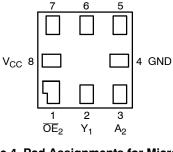
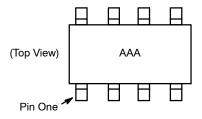


Figure 4. Pad Assignments for MicroPak (Top Thru View)



AAA represents Product Code Top Mark - see ordering code

NOTE: Orientation of Top Mark determines Pin One location. Read the top product code mark left to right, Pin One is the lower left pin (see diagram).

Figure 3. Pin One Orientation Diagram

#### **PIN DESCRIPTIONS**

| Pin Names      | Description                       |
|----------------|-----------------------------------|
| <u>ŌE</u> n    | Enable Inputs for 3-STATE Outputs |
| A <sub>n</sub> | Inputs                            |
| Y <sub>n</sub> | 3-STATE Outputs                   |

#### **FUNCTION TABLE**

| Inp | Output         |    |
|-----|----------------|----|
| ŌĒ  | A <sub>n</sub> | Yn |
| L   | L              | Н  |
| L   | Н              | L  |
| Н   | L              | Z  |
| Н   | Н              | Z  |

H = HIGH Logic Level

L = LOW Logic Level Z = 3-STATE

#### **ABSOLUTE MAXIMUM RATINGS**

| Symbol                             | Param   | Min                       | Max  | Unit |    |
|------------------------------------|---|---------------------------|------|------|----|
| V <sub>CC</sub>                    | Supply Voltage                                    |                           | -0.5 | 6.5  | V  |
| V <sub>IN</sub>                    | DC Input Voltage (Note 1)                         |                           | -0.5 | 6.5  | V  |
| V <sub>OUT</sub>                   | DC Output Voltage                                 |                           | -0.5 | 6.5  | V  |
| I <sub>IK</sub>                    | DC Input Diode Current                            | V <sub>IN</sub> < 0 V     | -    | -50  | mA |
| I <sub>OK</sub>                    | DC Output Diode Current                           | V <sub>OUT</sub> < 0 V    | -    | -50  | mA |
| I <sub>OUT</sub>                   | DC Output Source / Sink Current                   |                           | -    | ±50  | mA |
| I <sub>CC</sub> / I <sub>GND</sub> | DC V <sub>CC</sub> / Ground Current               |                           | -    | ±50  | mA |
| T <sub>STG</sub>                   | Storage Temperature Range                         | Storage Temperature Range |      | +150 | °C |
| TJ                                 | Junction Lead Temperature under Bias              |                           | -    | +150 | °C |
| TL                                 | Junction Lead Temperature (Soldering, 10 Seconds) |                           | -    | +260 | °C |
| $P_{D}$                            | Power Dissipation in Still Air US8                |                           | -    | 500  | mW |
|                                    |   | MicroPak-8                | -    | 539  | 1  |

Stresses exceeding those listed in the Maximum Ratings table may damage the device. If any of these limits are exceeded, device functionality should not be assumed, damage may occur and reliability may be affected.

1. The input and output negative voltage ratings may be exceeded if the input and output diode current ratings are observed.

#### RECOMMENDED OPERATING CONDITIONS

| Symbol                          |                          | Parameter                                     | Min | Max             | Unit |
|---------------------------------|--------------------------|---|-----|-----------------|------|
| V <sub>CC</sub>                 | Supply Voltage Operating | Supply Voltage Operating                      |     | 5.5             | ٧    |
|                                 | Supply Voltage Data Rete | ntion   | 1.5 | 5.5             |      |
| V <sub>IN</sub>                 | Input Voltage            |   | 0   | 5.5             | V    |
| V <sub>OUT</sub>                | Output Voltage           | Active State                                  | 0   | V <sub>CC</sub> | V    |
|                                 |                          | 3-STATE                                       | 0   | 5.5             | V    |
| T <sub>A</sub>                  | Operating Temperature    |   | -40 | +85             | °C   |
| t <sub>r</sub> , t <sub>f</sub> | Input Rise and Fall Time | V <sub>CC</sub> @ 1.8 V ±0.15 V, 2.5 V ±0.2 V | 0   | 20              | ns/V |
|                                 |                          | V <sub>CC</sub> @ 3.3 V ±0.3 V                | 0   | 10              |      |
|                                 |                          | V <sub>CC</sub> @ 5.0 V ±0.5 V                | 0   | 5               |      |
| $\theta_{\sf JA}$               | Thermal Resistance       | US8   | -   | 250             | °C/W |
|                                 |                          | MicroPak-8                                    | -   | 232             | 1    |

Functional operation above the stresses listed in the Recommended Operating Ranges is not implied. Extended exposure to stresses beyond the Recommended Operating Ranges limits may affect device reliability.

2. Unused inputs must be held HIGH or LOW. They may not float.

#### DC ELECTICAL CHARACTERISTICS

|                  |                              |   |                          |                     | T <sub>A</sub> = +25°C |      | °C                   | T <sub>A</sub> = -40 | to +85°C             |      |
|------------------|------------------------------|---|--------------------------|---------------------|------------------------|------|----------------------|----------------------|----------------------|------|
| Symbol           | Parameter                    | Cond  | itions                   | V <sub>CC</sub> (V) | Min                    | Тур  | Max                  | Min                  | Max                  | Unit |
| V <sub>IH</sub>  | HIGH Level Input             |   |                          | 1.65 to 1.95        | 0.65 V <sub>CC</sub>   | -    | -                    | 0.65 V <sub>CC</sub> | =                    | ٧    |
|                  | Voltage                      |   |                          | 2.3 to 5.5          | 0.7 V <sub>CC</sub>    | -    | -                    | 0.7 V <sub>CC</sub>  | =                    |      |
| $V_{IL}$         | LOW Level Input              |   |                          | 1.65 to 1.95        | -                      | _    | 0.35 V <sub>CC</sub> | -                    | 0.35 V <sub>CC</sub> | V    |
|                  | Voltage                      |   |                          | 2.3 to 5.5          | _                      | -    | 0.3 V <sub>CC</sub>  | -                    | 0.3 V <sub>CC</sub>  |      |
| V <sub>OH</sub>  | HIGH Level Output            | $V_{IN} = V_{IH}$ or  | $I_{OH} = -100 \mu A$    | 1.65                | 1.55                   | 1.65 | -                    | 1.55                 | =                    | V    |
|                  | Voltage                      | V <sub>IL</sub>   |                          | 2.3                 | 2.2                    | 2.3  | -                    | 2.2                  | =                    |      |
|                  |                              |   |                          | 3.0                 | 2.9                    | 3.0  | -                    | 2.9                  | =                    |      |
|                  |                              |   |                          | 4.5                 | 4.4                    | 4.5  | -                    | 4.4                  | =                    |      |
|                  |                              |   | $I_{OH} = -4 \text{ mA}$ | 1.65                | 1.29                   | 1.52 | -                    | 1.29                 | _                    |      |
|                  |                              |   | I <sub>OH</sub> = -8 mA  | 2.3                 | 1.9                    | 2.15 | -                    | 1.9                  | =                    |      |
|                  |                              |   | I <sub>OH</sub> = -16 mA | 3.0                 | 2.4                    | 2.80 | -                    | 2.4                  | -                    |      |
|                  |                              |   | I <sub>OH</sub> = -24 mA | 3.0                 | 2.3                    | 2.68 | -                    | 2.3                  | -                    |      |
|                  |                              |   | I <sub>OH</sub> = -32 mA | 4.5                 | 3.8                    | 4.20 | -                    | 3.8                  | =                    |      |
| V <sub>OL</sub>  | LOW Level Output             | $V_{IN} = V_{IH}$ or  | I <sub>OL</sub> = 100 μA | 1.65                | -                      | 0.0  | 0.10                 | -                    | 0.10                 | V    |
|                  | Voltage                      | V <sub>IL</sub>   |                          | 2.3                 | -                      | 0.0  | 0.10                 | _                    | 0.10                 |      |
|                  |                              |   |                          | 3.0                 | _                      | 0.0  | 0.10                 | =                    | 0.10                 |      |
|                  |                              |   |                          | 4.5                 | -                      | 0.0  | 0.10                 | _                    | 0.10                 |      |
|                  |                              |   | I <sub>OL</sub> = 4 mA   | 1.65                | _                      | 0.08 | 0.24                 | -                    | 0.24                 |      |
|                  |                              |   | I <sub>OL</sub> = 8 mA   | 2.3                 | _                      | 0.10 | 0.3                  | -                    | 0.3                  |      |
|                  |                              |   | I <sub>OL</sub> = 16 mA  | 3.0                 | _                      | 0.15 | 0.4                  | -                    | 0.4                  |      |
|                  |                              |   | I <sub>OL</sub> = 24 mA  | 3.0                 | _                      | 0.22 | 0.55                 | -                    | 0.55                 |      |
|                  |                              |   | I <sub>OL</sub> = 32 mA  | 4.5                 | _                      | 0.22 | 0.55                 | =                    | 0.55                 |      |
| I <sub>IN</sub>  | Input Leakage<br>Current     | V <sub>IN</sub> = 5.5 V, G  | ND                       | 1.65 to 5.5         | -                      | -    | ±0.1                 | -                    | ±1                   | μΑ   |
| I <sub>OZ</sub>  | 3-STATE Output<br>Leakage    | $V_{IN} = V_{IH} \text{ or } V_{IL}$<br>$0 \le V_{OUT} \le 5.5 \text{ V}$ |                          | 1.65 to 5.5         | -                      | -    | ±0.5                 | -                    | ±5                   | μΑ   |
| l <sub>OFF</sub> | Power Off Leakage<br>Current | V <sub>IN</sub> or V <sub>OUT</sub> =                                     | 5.5 V                    | 0.0                 | -                      | -    | 1                    | -                    | 10                   | μΑ   |
| I <sub>CC</sub>  | Quiescent Supply<br>Current  | V <sub>IN</sub> = 5.5 V, GN   | ND                       | 1.65 to 5.5         | -                      | -    | 1                    | -                    | 10                   | μΑ   |

#### **NOISE CHARACTERISTICS**

|                           |  |                        |                     | T <sub>A</sub> = +25°C |     |      |
|---------------------------|--|------------------------|---------------------|------------------------|-----|------|
| Symbol                    | Parameter                                    | Conditions             | V <sub>CC</sub> (V) | Тур                    | Max | Unit |
| V <sub>OLP</sub> (Note 3) | Quiet Output Maximum Dynamic V <sub>OL</sub> | C <sub>L</sub> = 50 pF | 5.0                 | -                      | 1.0 | V    |
| V <sub>OLV</sub> (Note 3) | Quiet Output Minimum Dynamic V <sub>OL</sub> | C <sub>L</sub> = 50 pF | 5.0                 | -                      | 1.0 | V    |
| V <sub>OHV</sub> (Note 3) | Quiet Output Minimum Dynamic V <sub>OH</sub> | C <sub>L</sub> = 50 pF | 5.0                 | -                      | 4.0 | V    |
| V <sub>IHD</sub> (Note 3) | Minimum HIGH Level Dynamic Input Voltage     | C <sub>L</sub> = 50 pF | 5.0                 | -                      | 3.5 | V    |
| V <sub>ILD</sub> (Note 3) | Maximum LOW Level Dynamic Input Voltage      | C <sub>L</sub> = 50 pF | 5.0                 | -                      | 1.5 | ٧    |

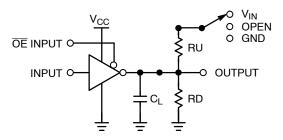
<sup>3.</sup> Parameter guaranteed by design.

#### **AC ELECTRICAL CHARACTERISTICS**

|                                       |   |   |  |   | T <sub>A</sub> = +25°C | ;    | T <sub>A</sub> = -40 | to +85°C |      |     |  |
|---------------------------------------|---|---|--|---|------------------------|------|----------------------|----------|------|-----|--|
| Symbol                                | Parameter   | Conditions  | V <sub>CC</sub> (V)  | Min   | Тур                    | Max  | Min                  | Max      | Unit |     |  |
| t <sub>PLH</sub> , t <sub>PHL</sub>   | Propagation Delay                                 | C <sub>L</sub> = 15 pF  | 1.8 ±0.15  | -   | -                      | 12.0 | -                    | 13.0     | ns   |     |  |
|                                       | A <sub>n</sub> to Y <sub>n</sub><br>(Figure 5, 7) | $R_D = 1 M\Omega$<br>S1 = Open  | 2.5 ±0.2   | -   | -                      | 7.5  | -                    | 8.0      |      |     |  |
|                                       |   |   | 3.3 ±0.3   | -   | -                      | 5.2  | -                    | 5.5      |      |     |  |
|                                       |   |   | 5.0 ±0.5   | -   | -                      | 4.5  | -                    | 4.8      |      |     |  |
|                                       |   | C <sub>L</sub> = 50 pF,   | 3.3 ±0.3   | -   | -                      | 5.7  | -                    | 6.0      |      |     |  |
|                                       |   | $R_D = 500 \Omega$<br>S1 = Open   | 5.0 ±0.5   | -   | -                      | 5.0  | -                    | 5.3      |      |     |  |
| t <sub>OSLH</sub> , t <sub>OSHL</sub> | Output to Output Skew                             | C <sub>L</sub> = 50 pF,   | 3.3 ±0.3   | -   | -                      | 1.0  | -                    | 1.0      | ns   |     |  |
|                                       | (Note 4) (Figure 5, 7)                            | $R_D = 500 \Omega$<br>S1 = Open   | 5.0 ±0.5   | -   | -                      | 0.8  | -                    | 0.8      |      |     |  |
| t <sub>PZL</sub> , t <sub>PZH</sub>   |   | ·   | 1.8 ±0.15  | _   | _                      | 14.0 | -                    | 15.0     | ns   |     |  |
|                                       | (Figure 5, 7)                                     | $\begin{aligned} R_D, R_U &= 500 \ \Omega \\ S1 &= GND \ for \ t_{PZH} \\ S1 &= V_I \ for \ t_{PZL} \\ V_I &= 2 \ x \ V_{CC} \end{aligned}$ | 2.5 ±0.2   | -   | -                      | 8.5  | -                    | 9.0      |      |     |  |
|                                       |   |   | $S1 = V_I \text{ for } t_{PZL}$<br>$V_I = 2 \times V_{CC}$ | $S1 = V_1$ for $t_{PZL}$<br>$V_1 = 2 \times V_{CC}$ | 3.3 ±0.3               | -    | -                    | 6.2      | -    | 6.5 |  |
|                                       |   |   | 5.5 ±0.5   | -   | -                      | 5.5  | -                    | 5.8      |      |     |  |
| $t_{PLZ}$ , $t_{PHZ}$                 | Output Disable Time                               | C <sub>L</sub> = 50 pF  | 1.8 ±0.15  | -   | -                      | 12.0 | -                    | 13.0     | ns   |     |  |
|                                       | (Figure 5, 7)                                     | $R_D, R_U = 500 \Omega$<br>S1 = GND for $t_{PZH}$   | 2.5 ±0.2   | -   | -                      | 8.0  | -                    | 8.5      |      |     |  |
|                                       |   | $S1 = V_I \text{ for } t_{PZL}$<br>$V_I = 2 \times V_{CC}$  | 3.3 ±0.3   | -   | -                      | 5.7  | -                    | 6.0      |      |     |  |
|                                       |   |   | 5.0 ±0.5   | -   | -                      | 4.7  | -                    | 5.0      |      |     |  |
| C <sub>IN</sub>                       | Input Capacitance                                 |   | 0  | -   | 2.5                    | -    | -                    | -        | pF   |     |  |
| C <sub>OUT</sub>                      | Output Capacitance                                |   | 5.0  | -   | 4                      | -    | -                    | -        | pF   |     |  |
| C <sub>PD</sub>                       | Power Dissipation                                 | (Note 5)  | 3.3  | -   | 10                     | -    | -                    | -        | pF   |     |  |
|                                       | Capacitance (Figure 6)                            |   | 5.0  | -   | 12                     | -    | -                    | -        |      |     |  |

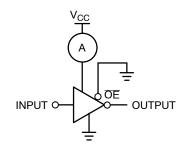
Parameter guaranteed by design. t<sub>OSLH</sub> = |t<sub>PLHmax</sub> - t<sub>PLHmin</sub>|; t<sub>OSHL</sub> = |t<sub>PHLmax</sub> - t<sub>PHLmin</sub>|.
 C<sub>PD</sub> is defined as the value of the internal equivalent capacitance which is derived from dynamic operating current consumption (I<sub>CCD</sub>) at no output loading and operating at 50% duty cycle. (see Figure 6) C<sub>PD</sub> is related to I<sub>CCD</sub> dynamic operating current by the expression: I<sub>CCD</sub> = (C<sub>PD</sub>) (V<sub>CC</sub>) (f<sub>IN</sub>) + (I<sub>CC</sub>static).

#### **AC Loading and Waveforms**



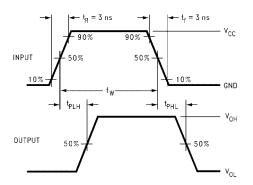
 $C_L$  includes load and stray capacitance Input PRR = 1.0 MHz;  $t_W$  = 500 ns

Figure 5. AC Test Circuit



Input = AC Waveform;  $t_r = t_f = 1.8$  ns; PRR = 10 MHz; Duty Cycle = 50%.

Figure 6. I<sub>CCD</sub> Test Circuit



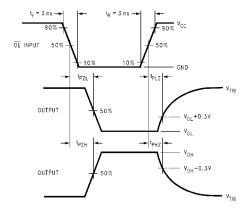


Figure 7. AC Waveforms

### **ORDERING INFORMATION**

| Order Number | Top Mark | Package   | Shipping <sup>†</sup> |
|--------------|----------|---|-----------------------|
| NC7WZ240K8X  | WZ40     | 8-Lead US8, JEDEC MO-187, Variation CA<br>3.1 mm Wide | 3000 / Tape & Reel    |
| NC7WZ240L8X  | U7       | 8-Lead MicroPak, 1.6 mm Wide<br>(Pb-Free)             | 5000 / Tape & Reel    |

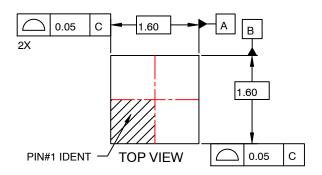
<sup>†</sup>For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specifications Brochure, BRD8011/D.

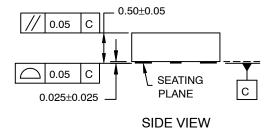
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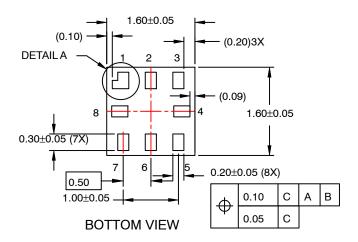
<sup>6.</sup> Pb-Free package per JEDEC J-STD-020B.

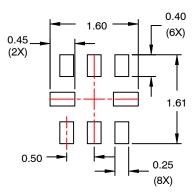
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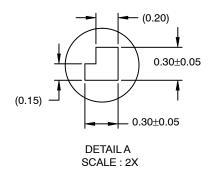




RECOMMENDED LAND PATTERN

#### NOTES:

- A. PACKAGE CONFORMS TO JEDEC MO-255 VARIATION UAAD.
- B. DIMENSIONS ARE IN MILLIMETERS.
- C. DIMENSIONS AND TOLERANCES PER ASME Y14.5M, 2009.
- D. LAND PATTERN RECOMMENDATION IS EXISTING INDUSTRY LAND PATTERN.

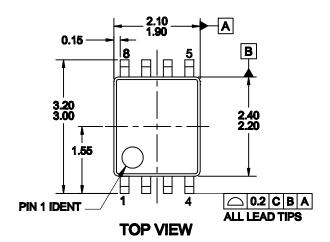


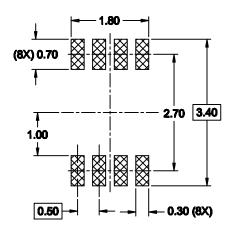
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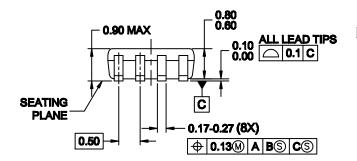
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**DATE 31 DEC 2016** 





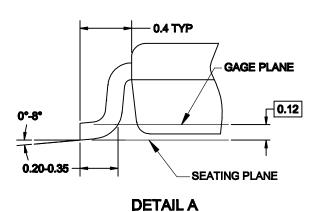
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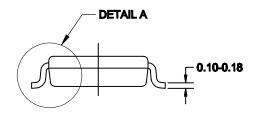


## **NOTES:**

- A. CONFORMS TO JEDEC REGISTRATION MO-187
- **B. DIMENSIONS ARE IN MILLIMETERS.**
- C. DIMENSIONS ARE EXCLUSIVE OF BURRS, MOLD FLASH, AND TIE BAR EXTRUSIONS.
- D. DIMENSIONS AND TOLERANCES PER ANSI Y14.5M, 1994.

## **SIDE VIEW**





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