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October 2003 Revised March 2004

NC7WV04

TinyLogic® ULP-A Dual Inverter

General Description

The NC7WV04 is a dual inverter from Fairchild's Ultra Low Power-A (ULP-A) Series of TinyLogic®. ULP-A is ideal for applications that require extreme high speed, high drive and low power. This product is designed for a wide low voltage operating range (0.9V to 3.6V V_{CC}) and applications that require more drive and speed than the TinyLogic ULP series, but still offer best in class low power operation.

The NC7WV04 is uniquely designed for optimized power and speed, and is fabricated with an advanced CMOS technology to achieve high-speed operation while maintaining low CMOS power dissipation.

Features

- 0.9V to 3.6V V_{CC} supply operation
- 3.6V overvoltage tolerant I/O's at V_{CC} from 0.9V to 3.6V
- Extremely High Speed tpD

1.5 ns typ for 2.7V to 3.6V $V_{\rm CC}$

1.8 ns typ for 2.3V to 2.7V V_{CC}

2.0 ns typ for 1.65V to 1.95V V_{CC}

3.2 ns typ for 1.4V to 1.6V V_{CC}

6.0 ns typ for 1.1V to 1.3V V_{CC}

12 ns typ for 0.9V $V_{\rm CC}$

- Power-Off high impedance inputs and outputs
- High Static Drive (I_{OH}/I_{OL})

±24 mA @ 3.00V V_{CC}

±18 mA @ 2.30V V_{CC}

±6 mA @ 1.65V V_{CC}

±4 mA @ 1.4V V_{CC}

±2 mA @ 1.1V V_{CC}

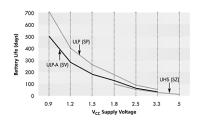
±0.1 mA @ 0.9V V_{CC}

- Uses patented Quiet Series[™] noise/EMI reduction
- Ultra small MicroPak™ leadfree package
- Ultra low dynamic power

Ordering Code:

| Order Number | Package Number | Product Code Top Mark | Package Description | Supplied As | |
|--------------|-------------------|--------------------------|-------------------------------------|---------------------------|--|
| NC7WV04P6X | MAA06A | V04 | 6-Lead SC70, EIAJ SC88, 1.25mm Wide | 3k Units on Tape and Reel | |
| NC7WV04L6X | MAC06A | BA | 6-Lead MicroPak, 1.0mm Wide | 5k Units on Tape and Reel | |

Battery Life vs. V_{CC} Supply Voltage



TinyLogic ULP and ULP-A with up to 50% less power consumption can extend your battery life significantly. Battery Life = (V_{battery} *I_{battery}*.9)/(P_{device})/24hrs/day

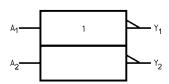
Where, $P_{device} = (I_{CC} * V_{CC}) + (C_{PD} + C_L) * V_{CC}^2 * f$

Assumes ideal 3.6V Lithium Ion battery with current rating of 900mAH and derated 90% and device frequency at 10MHz, with $C_L = 15 \text{ pF}$ load

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Logic Symbol

IEEE/IEC



Pin Descriptions

| Pin Names | Description | | |
|---------------------------------|-------------|--|--|
| A ₁ , A ₂ | Data Inputs | | |
| Y ₁ , Y ₂ | Outputs | | |

Function Table

$\boldsymbol{Y}=\overline{\boldsymbol{A}}$

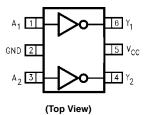
| Input | Output |
|-------|--------|
| Α | Y |
| L | Н |
| Н | L |

H = HIGH Logic Level

L = LOW Logic Level

Connection Diagrams

Pin Assignments for SC70



Pin One Orientation Diagram



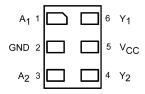
Pin One

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).

Pad Assignments for MicroPak



(Top Thru View)

±24 mA

Absolute Maximum Ratings(Note 1)

$\begin{array}{lll} \mbox{Supply Voltage (V$_{CC}$)} & -0.5 \mbox{V to } +4.6 \mbox{V} \\ \mbox{DC Input Voltage (V$_{IN}$)} & -0.5 \mbox{V to } +4.6 \mbox{V} \\ \end{array}$

DC Output Voltage (V_{OUT})
HIGH or LOW State (Note 2)

 $\label{eq:local_$

DC Output Diode Current (I_{OK})

 $\begin{array}{lll} \rm V_{OUT} < 0V & -50 \; mA \\ & \rm V_{OUT} > V_{CC} & +50 \; mA \\ & \rm DC \; Output \; Source/Sink \; Current \; (I_{OH}/I_{OL}) & \pm \; 50 \; mA \\ \end{array}$

 $\operatorname{DC}\operatorname{V}_{\operatorname{CC}}$ or Ground Current per

Supply Pin (I_{CC} or Ground) \pm 50 mA Storage Temperature Range (T_{STG}) -65° C to +150 $^{\circ}$ C

Recommended Operating Conditions (Note 3)

Supply Voltage 0.9V to 3.6V Input Voltage (V_{IN}) 0V to 3.6V

Output Voltage (V_{OUT})

 $V_{\rm CC} = 0.0 \mbox{V}$ 0V to 3.6V HIGH or LOW State 0V to $V_{\rm CC}$

Output Current in I_{OH}/I_{OL} $V_{CC} = 3.0V$ to 3.6V

 $\begin{array}{lll} \mbox{V}_{CC} = 2.3 \mbox{V to } 2.7 \mbox{V} & \pm 18 \mbox{ mA} \\ \mbox{V}_{CC} = 1.65 \mbox{V to } 1.95 \mbox{V} & \pm 6 \mbox{ mA} \\ \mbox{V}_{CC} = 1.4 \mbox{V to } 1.6 \mbox{V} & \pm 4 \mbox{ mA} \\ \mbox{V}_{CC} = 1.1 \mbox{V to } 1.3 \mbox{V} & \pm 2 \mbox{ mA} \\ \end{array}$

 $V_{CC} = 0.9V \\ \mbox{$\pm 0.1$ mA} \\ \mbox{Free Air Operating Temperature (T_A)} \\ \mbox{-40°C to $+85^{\circ}$C} \\ \mbox{}$

Minimum Input Edge Rate (Δt/ΔV)

 $V_{IN} = 0.8V$ to 2.0V, $V_{CC} = 3.0V$ 10 ns/V

Note 1: Absolute Maximum Ratings: are those values beyond which the safety of the device cannot be guaranteed. The device should not be operated at these limits. The parametric values defined in the Electrical Characteristics tables are not guaranteed at the absolute maximum ratings. The "Recommended Operating Conditions" table will define the conditions for actual device operation.

Note 2: IO Absolute Maximum Rating must be observed.

Note 3: Unused inputs must be held HIGH or LOW. They may not float.

DC Electrical Characteristics

| Symbol | Parameter | V _{cc} | T _A = - | +25°C | $T_A = -40^{\circ}C \text{ to } +85^{\circ}C$ | | Units | Conditions |
|-----------------|----------------|------------------------------|---------------------------|--------------------------|---|--------------------------|-------|---------------------------|
| Symbol | raiailletei | (V) | Min | Max | Min | Max | Units | Conditions |
| V _{IH} | HIGH Level | 0.90 | 0.65 x V _{CC} | | 0.65 x V _{CC} | | | |
| | Input Voltage | $1.10 \le V_{CC} \le 1.30$ | 0.65 x V _{CC} | | 0.65 x V _{CC} | | | |
| | | $1.40 \le V_{CC} \le 1.60$ | 0.65 x V _{CC} | | 0.65 x V _{CC} | | V | |
| | | $1.65 \le V_{CC} \le 1.95$ | 0.65 x V _{CC} | | 0.65 x V _{CC} | | · · | |
| | | $2.30 \le V_{CC} < 2.70$ | 1.6 | | 1.6 | | | |
| | | $2.70 \le V_{CC} \le 3.60$ | 2.0 | | 2.0 | | | |
| V _{IL} | LOW Level | 0.90 | | 0.35 x V _{CC} | | 0.35 x V _{CC} | | |
| | Input Voltage | $1.10 \le V_{CC} \le 1.30$ | | $0.35 \times V_{\rm CC}$ | | $0.35 \times V_{\rm CC}$ | | |
| | | $1.40 \le V_{CC} \le 1.60$ | | $0.35 \times V_{\rm CC}$ | | $0.35 \times V_{\rm CC}$ | V | |
| | | $1.65 \le V_{CC} \le 1.95$ | | $0.35 \times V_{\rm CC}$ | | $0.35 \times V_{\rm CC}$ | · · | |
| | | $2.30 \le V_{CC} < 2.70$ | | 0.7 | | 0.7 | | |
| | | $2.70 \le V_{CC} \le 3.60$ | | 0.8 | | 0.8 | | |
| V _{OH} | HIGH Level | 0.90 | V _{CC} - 0.1 | | V _{CC} - 0.1 | | | I _{OH} = -100 μA |
| | Output Voltage | $1.10 \le V_{CC} \le 1.30$ | V _{CC} - 0.1 | | V _{CC} - 0.1 | | | |
| | | $1.40 \le V_{CC} \le 1.60$ | V _{CC} - 0.2 | | V _{CC} - 0.2 | | | |
| | | $1.65 \le V_{CC} \le 1.95$ | V _{CC} - 0.2 | | V _{CC} - 0.2 | | | ΙΟΗ = -100 μΑ |
| | | $2.30 \le V_{CC} < 2.70$ | V _{CC} - 0.2 | | V _{CC} - 0.2 | | | |
| | | $2.70 \le V_{CC} \le 3.60$ | V _{CC} - 0.2 | | V _{CC} - 0.2 | | | |
| | | $1.10 \le V_{CC} \le 1.30$ | 0.75 x V _{CC} | | 0.75 x V _{CC} | | | I _{OH} = -2 mA |
| | | $1.40 \le V_{CC} \le 1.60$ | 0.75 x V _{CC} | | 0.75 x V _{CC} | | V | $I_{OH} = -4 \text{ mA}$ |
| | | $1.65 \le V_{CC} \le 1.95$ | 1.25 | | 1.25 | | | I _{OH} = -6 mA |
| | | $2.30 \le V_{CC} < 2.70$ | 2.0 | | 2.0 | | | IOHO IIIA |
| | | $2.30 \le V_{CC} < 2.70$ | 1.8 | | 1.8 | | | I _{OH} = -12 mA |
| | | $2.70 \leq V_{CC} \leq 3.60$ | 2.2 | | 2.2 | | | I'OH - 12 IIIA |
| | | $2.30 \le V_{CC} < 2.70$ | 1.7 | | 1.7 | | | I _{OH} = -18 mA |
| | | $2.70 \leq V_{CC} \leq 3.60$ | 2.4 | | 2.4 | | | |
| | | $2.70 \le V_{CC} \le 3.60$ | 2.2 | | 2.2 | | | I _{OH} = -24 mA |
| | • | • | • | • | • | • | | |

DC Electrical Characteristics (Continued)

| Symbol | Parameter | V _{CC} | T _A = + | -25°C | T _A = -40° | C to +85°C | Units | Conditions |
|------------------|---------------------------|------------------------------|---------------------------|------------------------|-----------------------|------------------------|-------|-----------------------------|
| Symbol | r ai ailletei | (V) | Min | Max | Min | Max | Units | Conditions |
| V _{OL} | LOW Level | 0.90 | | 0.1 | | 0.1 | | |
| | Output Voltage | $1.10 \leq V_{CC} \leq 1.30$ | | 0.1 | | 0.1 | | |
| | | $1.40 \leq V_{CC} \leq 1.60$ | | 0.2 | | 0.2 | | I _{OL} = 100 μA |
| | | $1.65 \leq V_{CC} \leq 1.95$ | | 0.2 | | 0.2 | | ΙΟΣ = 100 μΑ |
| | | $2.30 \leq V_{CC} < 2.70$ | | 0.2 | | 0.2 | | |
| | | $2.70 \leq V_{CC} \leq 3.60$ | | 0.2 | | 0.2 | | |
| | | $1.10 \le V_{CC} \le 1.30$ | | 0.25 x V _{CC} | | 0.25 x V _{CC} | V | I _{OL} = 2 mA |
| | | $1.40 \le V_{CC} \le 1.60$ | | 0.25 x V _{CC} | | 0.25 x V _{CC} | v | I _{OL} = 4 mA |
| | | $1.65 \le V_{CC} \le 1.95$ | | 0.3 | | 0.3 | | I _{OL} = 6 mA |
| | | $2.30 \le V_{CC} < 2.70$ | | 0.4 | | 0.4 | | I _{OL} = 12 mA |
| | | $2.70 \leq V_{CC} \leq 3.60$ | | 0.4 | | 0.4 | | 10L - 12 IIIA |
| | | $2.30 \le V_{CC} < 2.70$ | | 0.6 | | 0.6 | | I _{OL} = 18 mA |
| | | $2.70 \leq V_{CC} \leq 3.60$ | | 0.4 | | 0.4 | | 10L = 10 IIIA |
| | | $2.70 \leq V_{CC} \leq 3.60$ | | 0.55 | | 0.55 | | I _{OL} = 24 mA |
| I _{IN} | Input Leakage Current | 0.90 to 3.60 | | ±0.1 | | ±0.5 | μΑ | $0 \le V_I \le 3.6V$ |
| I _{OFF} | Power Off Leakage Current | 0 | | 0.5 | | 0.5 | μΑ | $0 \le (V_I, V_O) \le 3.6V$ |
| I _{CC} | Quiescent Supply Current | 0.90 to 3.60 | | 0.9 | | 0.9 | μА | $V_I = V_{CC}$ or GND |
| | | 0.90 to 3.60 | | | | ±0.9 | μΑ | $V_{CC} \le V_I \le 3.6V$ |

AC Electrical Characteristics

| Symbol | Parameter | V _{cc} | $T_A = +25^{\circ}C$ | | $T_A = -40^{\circ}C \text{ to } +85^{\circ}C$ | | Units | Conditions | Figure | |
|------------------|--------------------|------------------------------|----------------------|-----|---|-----|-------|------------|--|---------|
| Syllibol | Farameter | (V) | Min | Тур | Max | Min | Max | Units | Conditions | Number |
| t _{PHL} | Propagation Delay | 0.90 | | 12 | | | | | $C_L = 15 \text{ pF}, R_L = 1 \text{ M}\Omega$ | |
| t _{PLH} | | $1.10 \le V_{CC} \le 1.30$ | 2.0 | 6 | 12.1 | 1.0 | 14.9 | | $C_L = 15 \text{ pF}, R_L = 2 \text{ k}\Omega$ | |
| | | $1.40 \leq V_{CC} \leq 1.60$ | 1.0 | 3.2 | 5.4 | 0.9 | 6.0 | ns | | Figures |
| | | $1.65 \le V_{CC} \le 1.95$ | 1.0 | 2.0 | 4.6 | 0.7 | 5.2 | 115 | C _L = 30 pF | 1, 2 |
| | | $2.30 \le V_{CC} < 2.70$ | 0.8 | 1.8 | 3.6 | 0.6 | 3.8 | | $R_L = 500 \text{ k}\Omega$ | |
| | | $2.70 \leq V_{CC} \leq 3.60$ | 0.7 | 1.5 | 3.0 | 0.5 | 3.3 | | | |
| C _{IN} | Input Capacitance | 0 | | 2.0 | | | | pF | | |
| C _{OUT} | Output Capacitance | 0 | | 4.5 | | | | pF | | |
| C _{PD} | Power Dissipation | 0.90 to 3.60 | | 10 | | | | pF | $V_I = 0V \text{ or } V_{CC}$ | |
| | Capacitance | 0.90 to 3.60 | | 10 | | | | þΓ | f = 10 MHz | |

AC Loading and Waveforms

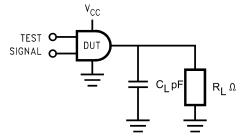


FIGURE 1. AC Test Circuit

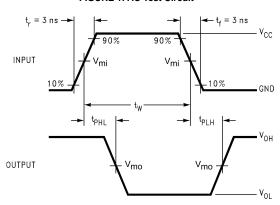


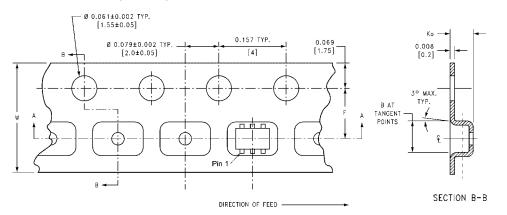
FIGURE 2. AC Waveforms

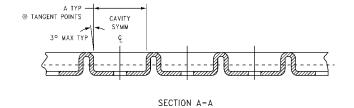
| Symbol | V _{CC} | | | | | | | | |
|-----------------|-----------------|-----------------------------------|--------------------|--------------------|--------------------|--------------------|--|--|--|
| 5, | $3.3V \pm 0.3V$ | $\textbf{2.5V} \pm \textbf{0.2V}$ | 1.8V \pm 0.15V | 1.5V ± 0.10V | 1.2V ± 0.10V | 0.9V | | | |
| V _{mi} | 1.5V | V _{CC} /2 | V _{CC} /2 | V _{CC} /2 | V _{CC} /2 | V _{CC} /2 | | | |
| V _{mo} | 1.5V | V _{CC} /2 | V _{CC} /2 | V _{CC} /2 | V _{CC} /2 | V _{CC} /2 | | | |

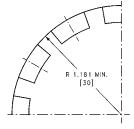
Tape and Reel Specification TAPE FORMAT for \$C70

| 1741 = 1 014111741 101 4 | 30.0 | | | |
|--------------------------|--------------------|-----------|--------|------------|
| Package | Таре | Number | Cavity | Cover Tape |
| Designator | Section | Cavities | Status | Status |
| | Leader (Start End) | 125 (typ) | Empty | Sealed |
| P6X | Carrier | 3000 | Filled | Sealed |
| | Trailer (Hub End) | 75 (typ) | Empty | Sealed |

TAPE DIMENSIONS inches (millimeters)



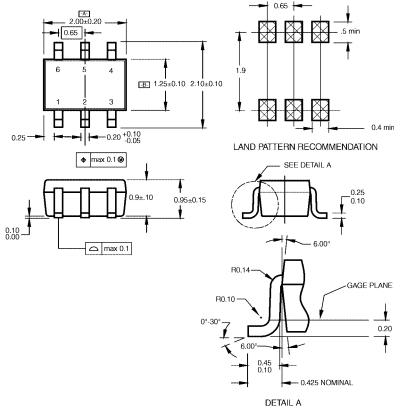




BEND RADIUS NOT TO SCALE

| Package | Та | ре | | Number | Cavity | Cover Tape |
|---------------------|---------------------|----------------------------------|--|---|--------------------------|---|
| Designator | Sec | | | Cavities | Status | Status |
| | Leader (S | | | 125 (typ) | Empty | Sealed |
| L6X | Carrier 5000 Filled | | | | | Sealed |
| | Trailer (H | Trailer (Hub End) 75 (typ) Empty | | | | |
| APE DIMENSIONS | inches (millimeter | rs) | +0.1 | | | • |
| 2.00 | | Ø 0.5 | Ø 1.50 +0.1 Ø 1.50 +0.1 Ø 1.50 ±0.05 | B B B B B B B B B B B B B B B B B B B | 1.75±0.10 A 3.50±0.05 | 5° MAX. 1.15±0.0 SECTION B-B SCALE:10X |
| EEL DIMENSIONS | SCA | ON A-A LE:10X | £0.05 | - 0.254±0.020 - 0.70±0.05 | | |
| _ | | | | | | → ← W ₁ |
| | | | | TAPE SLOT | C C | |
| | l | └ DET | AIL X | | TAIL X LE: 3X | → W ₃ |
| Tape A Size | ВС | D | N | W1 | W2 | W3 |
| 7.0 3 mm (177.8) | 0.059 | 0.795 (20.20) | 2.165 (55.00) | 0.331 + 0.059/-0.000 (8.40 + 1.50/-0.00) | 0.567 (14.40) | W1 + 0.078/-0.03 (W1 + 2.00/-1.00 |

Physical Dimensions inches (millimeters) unless otherwise noted



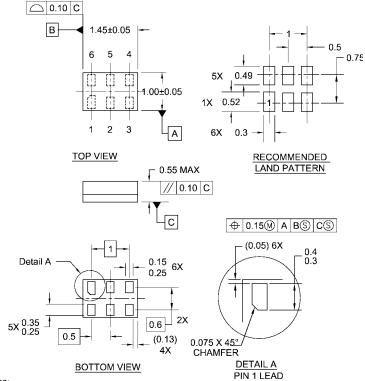
NOTES:

- A. CONFORMS TO EIAJ REGISTERED OUTLINE DRAWING SC88.
- B. DIMENSIONS DO NOT INCLUDE BURRS OR MOLD FLASH.
- C. DIMENSIONS ARE IN MILLIMETERS.

MAA06ARevC

6-Lead SC70, EIAJ SC88, 1.25mm Wide Package Number MAA06A

Physical Dimensions inches (millimeters) unless otherwise noted (Continued)



Notes:

- 1. JEDEC PACKAGE REGISTRATION IS ANTICIPATED 2. DIMENSIONS ARE IN MILLIMETERS
- 3. DRAWING CONFORMS TO ASME Y14.5M-1994

MAC06ARevB

6-Lead MicroPak, 1.0mm Wide Package Number MAC06A

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- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Компания «Океан Электроники» является официальным дистрибьютором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения «JONHON», а так же официальным дистрибьютором и эксклюзивным представителем в России производителя высокотехнологичных и надежных решений для передачи СВЧ сигналов «FORSTAR».



«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«**FORSTAR**» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели, кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



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