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## NC7WP08 TinyLogic® ULP Dual 2-Input AND Gate

### General Description

The NC7WP08 is a dual 2-input AND Gate from Fairchild's Ultra Low Power (ULP) Series of TinyLogic®. Ideal for applications where battery life is critical, this product is designed for ultra low power consumption within the  $V_{CC}$  operating range of 0.9V to 3.6V  $V_{CC}$ .

The internal circuit is composed of a minimum of inverter stages including the output buffer, to enable ultra low static and dynamic power.

The NC7WP08 is designed for optimized power and speed, and is fabricated with an advanced CMOS technology to achieve high speed operation while maintaining extremely low CMOS power dissipation.

### Features

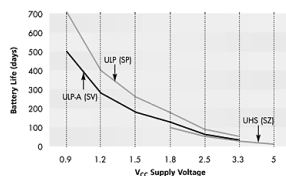
- Space saving US8 package
- Ultra small MicroPak™ Pb-Free package
- 0.9V to 3.6V  $V_{CC}$  supply operation
- 3.6V overvoltage tolerant I/O's at  $V_{CC}$  from 0.9V to 3.6V
- $t_{PD}$ 
  - 2.5 ns typ for 3.0V to 3.6V  $V_{CC}$
  - 5.0 ns typ for 2.3V to 2.7V  $V_{CC}$
  - 6.0 ns typ for 1.65V to 1.95V  $V_{CC}$
  - 7.0 ns typ for 1.40V to 1.60V  $V_{CC}$
  - 11.0 ns typ for 1.10V to 1.30V  $V_{CC}$
  - 27.0 ns typ for 0.90V  $V_{CC}$
- Power-Off high impedance inputs and outputs
- Static Drive ( $I_{OH}/I_{OL}$ )
  - ±2.6 mA @ 3.00V  $V_{CC}$
  - ±2.1 mA @ 2.30V  $V_{CC}$
  - ±1.5 mA @ 1.65V  $V_{CC}$
  - ±1.0 mA @ 1.40V  $V_{CC}$
  - ±0.5 mA @ 1.10V  $V_{CC}$
  - ±20  $\mu$ A @ 0.9V  $V_{CC}$
- Low noise switching using design techniques of Quiet Series™ noise/EMI reduction circuitry
- Ultra low dynamic power

### Ordering Code:

Order Number	Package Number	Product Code Top Mark	Package Description	Supplied As
NC7WP08K8X	MAB08A	WP08	8-Lead US8, JEDEC MO-187, Variation CA 3.1mm Wide	3k Units on Tape and Reel
NC7WP08L8X	MAC08A	Y5	Pb-Free 8-Lead MicroPak, 1.6 mm Wide	5k Units on Tape and Reel

Pb-Free package per JEDEC J-STD-020B.

### 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.

$$\text{Battery Life} = (V_{\text{battery}} \cdot t_{\text{battery}} \cdot 9) / (P_{\text{device}}) / 24\text{hrs/day}$$

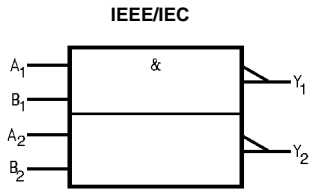
$$\text{Where, } P_{\text{device}} = (I_{CC} \cdot V_{CC}) + (C_{PD} + C_L) \cdot V_{CC}^2 \cdot f$$

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

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**Logic Symbol**



**Pin Descriptions**

Pin Names	Description
$A_n, B_n$	Input
$Y_n$	Output

**Function Table**

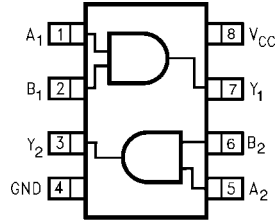
$Y = AB$

Inputs		Output
A	B	Y
L	L	L
L	H	L
H	L	L
H	H	H

H = HIGH Logic Level  
L = LOW Logic Level

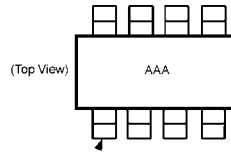
**Connection Diagrams**

**Pin Assignments for US8**



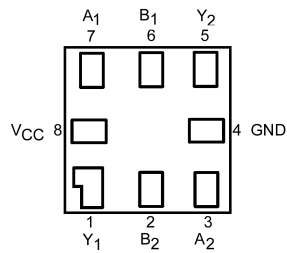
(Top View)

**Pin One Orientation Diagram**



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)

Absolute Maximum Ratings (Note 1)		Recommended Operating Conditions (Note 3)	
Supply Voltage ( $V_{CC}$ )	-0.5V to +4.6V	Supply Voltage	0.9V to 3.6V
DC Input Voltage ( $V_{IN}$ )	-0.5V to +4.6V	Input Voltage ( $V_{IN}$ )	0V to 3.6V
DC Output Voltage ( $V_{OUT}$ )		Output Voltage ( $V_{OUT}$ )	
HIGH or LOW State (Note 2)	-0.5V to $V_{CC} + 0.5V$	HIGH or LOW State	0V to $V_{CC}$
$V_{CC} = 0V$	-0.5V to 4.6V	$V_{CC} = 0V$	0V to 3.6V
DC Input Diode Current ( $I_{IK}$ ) $V_{IN} < 0V$	±50 mA	Output Current in $I_{OH}/I_{OL}$	
DC Output Diode Current ( $I_{OK}$ )		$V_{CC} = 3.0V$ to 3.6V	±2.6 mA
$V_{OUT} < 0V$	-50 mA	$V_{CC} = 2.3V$ to 2.7V	±2.1 mA
$V_{OUT} > V_{CC}$	+50 mA	$V_{CC} = 1.65V$ to 1.95V	±1.5 mA
DC Output Source/Sink Current ( $I_{OH}/I_{OL}$ )	± 50 mA	$V_{CC} = 1.40V$ to 1.60V	±1.0 mA
DC $V_{CC}$ or Ground Current per		$V_{CC} = 1.10V$ to 1.30V	±0.5 mA
Supply Pin ( $I_{CC}$ or Ground)	± 50 mA	$V_{CC} = 0.9V$	±20 $\mu A$
Storage Temperature Range ( $T_{STG}$ )	-65°C to +150°C	Free Air Operating Temperature ( $T_A$ )	-40°C to +85°C
		Minimum Input Edge Rate ( $\Delta t/\Delta V$ )	
		$V_{IN} = 0.8V$ 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:**  $I_O$  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	$V_{CC}$ (V)	$T_A = +25^\circ C$		$T_A = -40^\circ C$ to $+85^\circ C$		Units	Conditions
			Min	Max	Min	Max		
$V_{IH}$	HIGH Level Input Voltage	0.90	0.65 x $V_{CC}$		0.65 x $V_{CC}$		V	
		$1.10 \leq V_{CC} \leq 1.30$	0.65 x $V_{CC}$		0.65 x $V_{CC}$			
		$1.40 \leq V_{CC} \leq 1.60$	0.65 x $V_{CC}$		0.65 x $V_{CC}$			
		$1.65 \leq V_{CC} \leq 1.95$	0.65 x $V_{CC}$		0.65 x $V_{CC}$			
		$2.30 \leq V_{CC} \leq 2.70$	1.6		1.6			
		$3.00 \leq V_{CC} \leq 3.60$	2.1		2.1			
$V_{IL}$	LOW Level Input Voltage	0.90		0.35 x $V_{CC}$		0.35 x $V_{CC}$	V	
		$1.10 \leq V_{CC} \leq 1.30$		0.35 x $V_{CC}$		0.35 x $V_{CC}$		
		$1.40 \leq V_{CC} \leq 1.60$		0.35 x $V_{CC}$		0.35 x $V_{CC}$		
		$1.65 \leq V_{CC} \leq 1.95$		0.35 x $V_{CC}$		0.35 x $V_{CC}$		
		$2.30 \leq V_{CC} \leq 2.70$		0.7		0.7		
		$3.00 \leq V_{CC} \leq 3.60$		0.9	0.9			
$V_{OH}$	HIGH Level Output Voltage	0.90	$V_{CC} - 0.1$		$V_{CC} - 0.1$		V	$I_{OH} = -20 \mu A$
		$1.10 \leq V_{CC} \leq 1.30$	$V_{CC} - 0.1$		$V_{CC} - 0.1$			
		$1.40 \leq V_{CC} \leq 1.60$	$V_{CC} - 0.1$		$V_{CC} - 0.1$			
		$1.65 \leq V_{CC} \leq 1.95$	$V_{CC} - 0.1$		$V_{CC} - 0.1$			
		$2.30 \leq V_{CC} \leq 2.70$	$V_{CC} - 0.1$		$V_{CC} - 0.1$			
		$3.00 \leq V_{CC} \leq 3.60$	$V_{CC} - 0.1$		$V_{CC} - 0.1$			
		$1.10 \leq V_{CC} \leq 1.30$	0.75 x $V_{CC}$		0.70 x $V_{CC}$			
		$1.40 \leq V_{CC} \leq 1.60$	1.07		0.99			
		$1.65 \leq V_{CC} \leq 1.95$	1.24		1.22			
		$2.30 \leq V_{CC} \leq 2.70$	1.95		1.87			
	$3.00 \leq V_{CC} \leq 3.60$	2.61		2.55				

DC Electrical Characteristics (Continued)										
Symbol	Parameter	V <sub>CC</sub> (V)	T <sub>A</sub> = +25°C		T <sub>A</sub> = -40°C to +85°C		Units	Conditions		
			Min	Max	Min	Max				
V <sub>OL</sub>	LOW Level Output Voltage	0.90		0.1		0.1	V	I <sub>OL</sub> = 20 μA		
		1.10 ≤ V <sub>CC</sub> ≤ 1.30		0.1		0.1				
		1.40 ≤ V <sub>CC</sub> ≤ 1.60		0.1		0.1				
		1.65 ≤ V <sub>CC</sub> ≤ 1.95		0.1		0.1				
		2.30 ≤ V <sub>CC</sub> ≤ 2.70		0.1		0.1				
		3.00 ≤ V <sub>CC</sub> ≤ 3.60		0.1		0.1				
		1.10 ≤ V <sub>CC</sub> ≤ 1.30		0.30 x V <sub>CC</sub>		0.30 x V <sub>CC</sub>				
		1.40 ≤ V <sub>CC</sub> ≤ 1.60		0.31		0.37				
		1.65 ≤ V <sub>CC</sub> ≤ 1.95		0.31		0.35				
2.30 ≤ V <sub>CC</sub> ≤ 2.70		0.31		0.33						
3.00 ≤ V <sub>CC</sub> ≤ 3.60		0.31		0.33						
I <sub>IN</sub>	Input Leakage Current	0.90 to 3.60		±0.1		±0.5	μA	0 ≤ V <sub>I</sub> ≤ 3.6V		
I <sub>OFF</sub>	Power Off Leakage Current	0		0.5		0.5	μA	0 ≤ (V <sub>I</sub> , V <sub>O</sub> ) ≤ 3.6V		
I <sub>CC</sub>	Quiescent Supply Current	0.90 to 3.60		0.9		0.9	μA	V <sub>I</sub> = V <sub>CC</sub> or GND		
AC Electrical Characteristics										
Symbol	Parameter	V <sub>CC</sub> (V)	T <sub>A</sub> = +25°C			T <sub>A</sub> = -40°C to +85°C		Units	Conditions	Figure Number
			Min	Typ	Max	Min	Max			
t <sub>PHL</sub> t <sub>PLH</sub>	Propagation Delay	0.9		27.0				ns	C <sub>L</sub> = 10 pF R <sub>L</sub> = 1 MΩ	Figures 1, 2
		1.10 ≤ V <sub>CC</sub> ≤ 1.30	3.5	11.0	21.8	3.0	34.3			
		1.40 ≤ V <sub>CC</sub> ≤ 1.60	2.5	7.0	14.8	2.0	15.0			
		1.65 ≤ V <sub>CC</sub> ≤ 1.95	2.0	6.0	12.0	1.5	12.2			
		2.30 ≤ V <sub>CC</sub> ≤ 2.70	1.5	5.0	9.4	1.0	9.9			
3.00 ≤ V <sub>CC</sub> ≤ 3.60	1.0	4.0	8.3	1.0	9.0					
t <sub>PHL</sub> t <sub>PLH</sub>	Propagation Delay	0.90		30.0				ns	C <sub>L</sub> = 15 pF R <sub>L</sub> = 1 MΩ	Figures 1, 2
		1.10 ≤ V <sub>CC</sub> ≤ 1.30	4.0	11.0	22.8	3.5	37.3			
		1.40 ≤ V <sub>CC</sub> ≤ 1.60	3.0	8.0	15.5	2.5	16.5			
		1.65 ≤ V <sub>CC</sub> ≤ 1.95	2.5	6.0	12.6	2.0	13.6			
		2.30 ≤ V <sub>CC</sub> ≤ 2.70	2.0	5.0	9.9	1.5	10.8			
3.00 ≤ V <sub>CC</sub> ≤ 3.60	1.5	4.0	8.7	1.0	9.5					
t <sub>PHL</sub> t <sub>PLH</sub>	Propagation Delay	0.90		32.0				ns	C <sub>L</sub> = 30 pF R <sub>L</sub> = 1 MΩ	Figures 1, 2
		1.10 ≤ V <sub>CC</sub> ≤ 1.30	5.0	13.0	25.9	4.0	46.3			
		1.40 ≤ V <sub>CC</sub> ≤ 1.60	4.0	9.0	17.8	3.5	18.2			
		1.65 ≤ V <sub>CC</sub> ≤ 1.95	3.0	7.0	14.4	2.0	15.9			
		2.30 ≤ V <sub>CC</sub> ≤ 2.70	2.0	6.0	11.3	1.5	12.8			
3.00 ≤ V <sub>CC</sub> ≤ 3.60	1.5	5.0	9.2	1.0	10.7					
C <sub>IN</sub>	Input Capacitance	0		2.0			pF			
C <sub>OUT</sub>	Output Capacitance	0		4.0			pF			
C <sub>PD</sub>	Power Dissipation Capacitance	0.9 to 3.60		6.0			pF	V <sub>I</sub> = 0V or V <sub>CC</sub> , f = 10 MHz		

## AC Loading and Waveforms

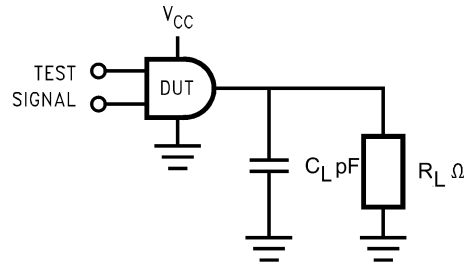


FIGURE 1. AC Test Circuit

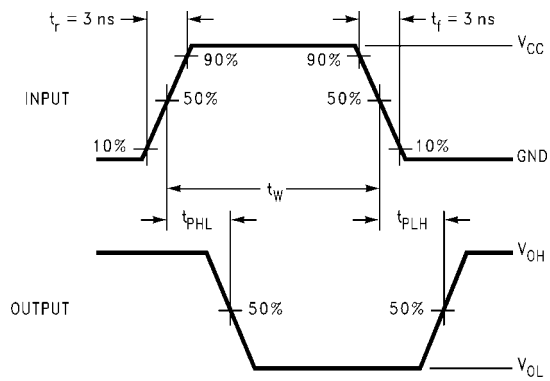
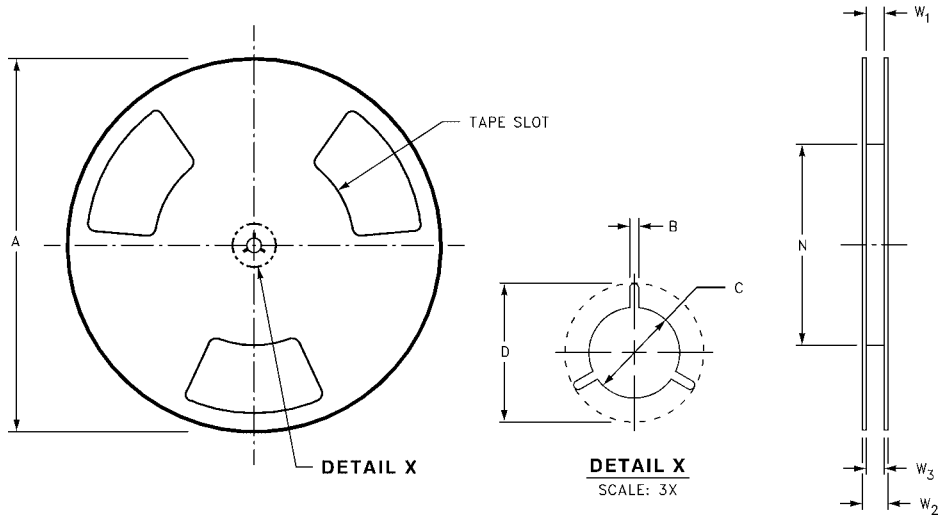


FIGURE 2. AC Waveforms

Symbol	$V_{CC}$					
	3.3V ± 0.3V	2.5V ± 0.2V	1.8V ± 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	$V_{CC}/2$	$V_{CC}/2$	$V_{CC}/2$	$V_{CC}/2$	$V_{CC}/2$



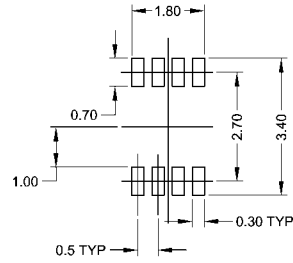
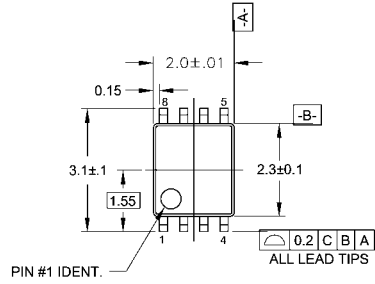
**Tape and Reel Specification** (Continued)  
**REEL DIMENSIONS** inches (millimeters)



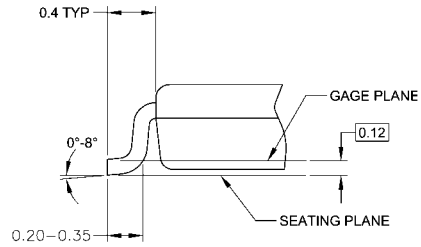
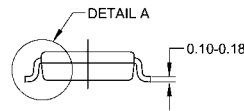
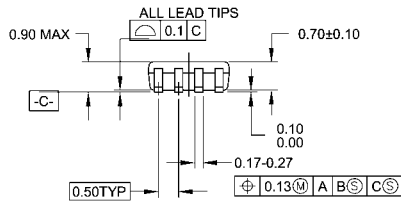
Tape Size	A	B	C	D	N	W1	W2	W3
8 mm	7.0 (177.8)	0.059 (1.50)	0.512 (13.00)	0.795 (20.20)	2.165 (55.00)	0.331 + 0.059/-0.000 (8.40 + 1.50/-0.00)	0.567 (14.40)	W1 + 0.078/-0.039 (W1 + 2.00/-1.00)



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



LAND PATTERN RECOMMENDATION



DETAIL A

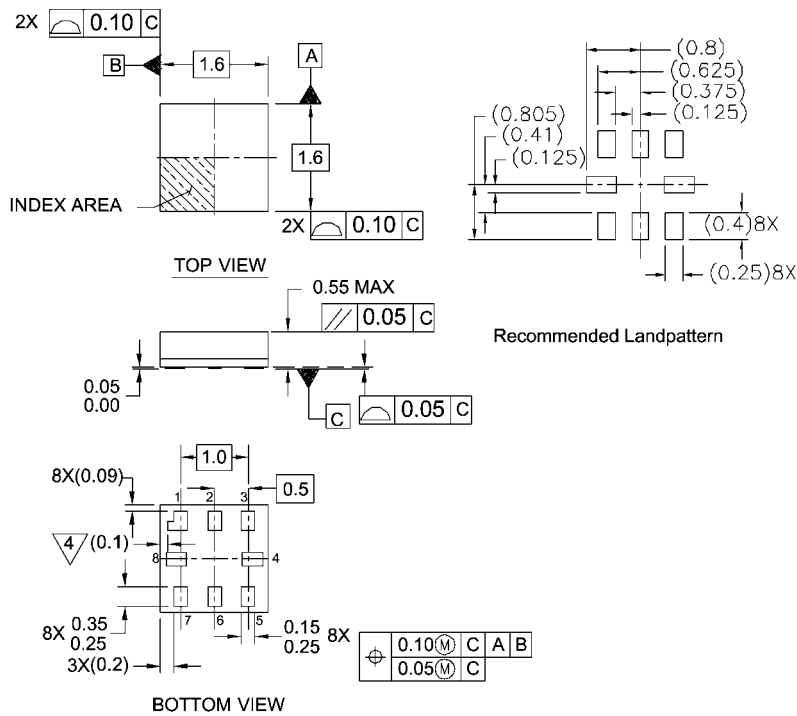
NOTES:

- 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, 1982.

MAB08AREVC

**8-Lead US8, JEDEC MO-187, Variation CA 3.1mm Wide  
Package Number MAB08A**

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



**Notes:**

1. PACKAGE CONFORMS TO JEDEC MO-255 VARIATION UAAD
2. DIMENSIONS ARE IN MILLIMETERS
3. DRAWING CONFORMS TO ASME Y.14M-1994
4. PIN 1 FLAG, END OF PACKAGE OFFSET.

MAC08AREVC

**Pb-Free 8-Lead MicroPak, 1.6 mm Wide  
Package Number MAC08A**

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## Стандарт Электрон Связь

Мы молодая и активно развивающаяся компания в области поставок электронных компонентов. Мы поставляем электронные компоненты отечественного и импортного производства напрямую от производителей и с крупнейших складов мира.

Благодаря сотрудничеству с мировыми поставщиками мы осуществляем комплексные и плановые поставки широчайшего спектра электронных компонентов.

Собственная эффективная логистика и склад в обеспечивает надежную поставку продукции в точно указанные сроки по всей России.

Мы осуществляем техническую поддержку нашим клиентам и предпродажную проверку качества продукции. На все поставляемые продукты мы предоставляем гарантию .

Осуществляем поставки продукции под контролем ВП МО РФ на предприятия военно-промышленного комплекса России , а также работаем в рамках 275 ФЗ с открытием отдельных счетов в уполномоченном банке. Система менеджмента качества компании соответствует требованиям ГОСТ ISO 9001.

Минимальные сроки поставки, гибкие цены, неограниченный ассортимент и индивидуальный подход к клиентам являются основой для выстраивания долгосрочного и эффективного сотрудничества с предприятиями радиоэлектронной промышленности, предприятиями ВПК и научно-исследовательскими институтами России.

С нами вы становитесь еще успешнее!

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