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October 2010

# 74AUP1G97 TinyLogic<sup>®</sup> Low Power Universal Configurable Two-Input Logic Gate

### **Features**

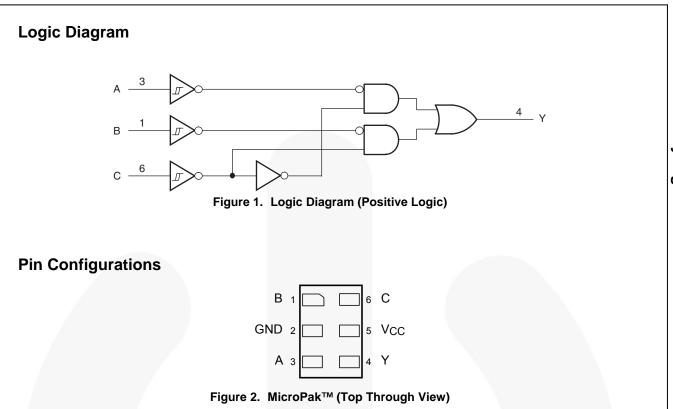
- 0.8V to 3.6V V<sub>CC</sub> Supply Operation
- 3.6V Over-Voltage Tolerant I/Os at V<sub>CC</sub> from 0.8V to 3.6V
- High Speed tpp - 3.1ns: Typical at 3.3V
- Power-Off High-Impedance Inputs and Outputs
- Low Static Power Consumption
   I<sub>cc</sub>=0.9µA Maximum
- Low Dynamic Power Consumption
   C<sub>PD</sub>=2.5pF Typical at 3.3V
- Ultra-Small MicroPak<sup>™</sup> Packages

Description

The 74AUP1G97 is a universal configurable 2-input logic gate that provides a high performance and low power solution ideal for battery-powered portable applications. This product is designed for a wide low voltage operating range (0.8V to 3.6V) and guarantees very low static and dynamic power consumption across the entire voltage range. All inputs are implemented with hysteresis to allow for slower transition input signals and better switching noise immunity.

The 74AUP1G97 provides for multiple functions as determined by various configurations of the three inputs. The potential logic functions provided are MUX, AND, OR, NAND, and NOR, inverter and buffer. Refer to Figures 3 to 9.

Part Number	Top Mark	Package	Packing Method
74AUP1G97L6X	AD	6-Lead MicroPak™, 1.0mm Wide	5000 Units on Tape & Reel
74AUP1G97FHX	AD	6-Lead, MicroPak2™, 1x1mm Body, .35mm Pitch	5000 Units on Tape & Reel



# **Pin Definitions**

Pin #	Name	Description
1	В	Data Input
2	GND	Ground
3	A	Data Input
4	Y	Output
5	V <sub>cc</sub>	Supply Voltage
6	С	Data Input

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# **Function Table**

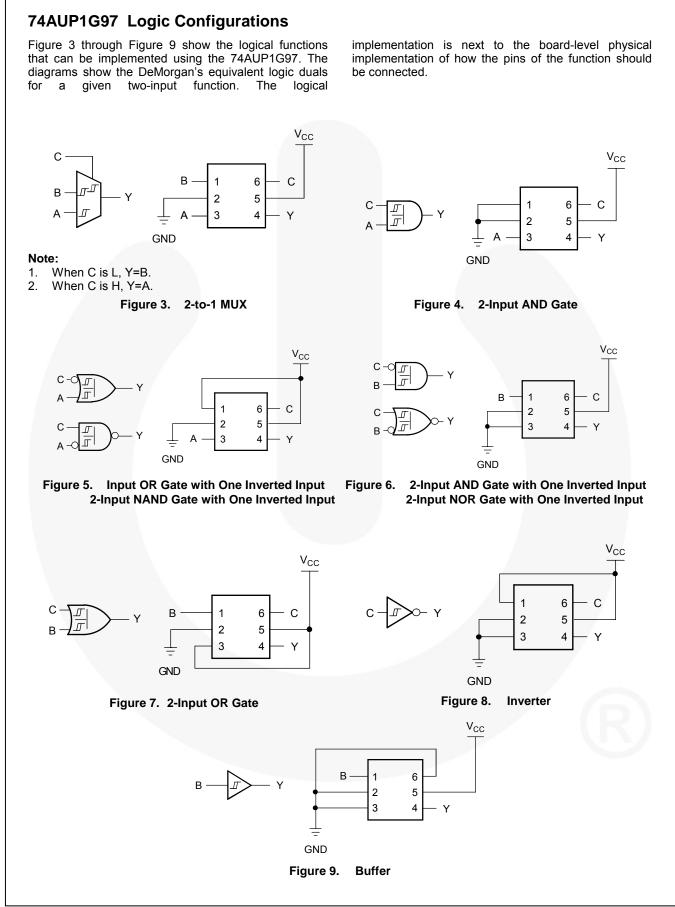
	Inputs		74AUP1G97
С	В	Α	Y=Output
L	L	L	L
L	L	Н	L
L	Н	L	Н
L	Н	Н	Н
н	L	L	L
н	L	Н	Н
н	Н	L	L
Н	Н	Н	Н

H = HIGH Logic Level

L = LOW Logic Level

# **Function Selection Table**

2-Input Logic Function	Connection Configuration		
2-to-1 MUX	Figure 3		
2-Input AND Gate	Figure 4		
2-Input OR Gate with One Inverted Input	Figure 5		
2-Input NAND Gate with One Inverted Input	Figure 5		
2-Input AND Gate with One Inverted Input	Figure 6		
2-Input NOR Gate with One Inverted Input	Figure 6		
2-Input OR Gate	Figure 7		
Inverter	Figure 8		
Buffer	Figure 9		



# **Absolute Maximum Ratings**

Stresses exceeding the absolute maximum ratings may damage the device. The device may not function or be operable above the recommended operating conditions and stressing the parts to these levels is not recommended. In addition, extended exposure to stresses above the recommended operating conditions may affect device reliability. The absolute maximum ratings are stress ratings only.

Symbol	Par	ameter	Min.	Max.	Unit
V <sub>CC</sub>	Supply Voltage		-0.5	4.6	V
V <sub>IN</sub>	DC Input Voltage		-0.5	4.6	V
M		HIGH or LOW State <sup>(3)</sup>	-0.5	V <sub>CC</sub> + 0.5	V
V <sub>OUT</sub>	DC Output Voltage	V <sub>CC</sub> =0V	-0.5	4.6	v
I <sub>IK</sub>	DC Input Diode Current	V <sub>IN</sub> < 0V		-50	mA
1	DC Output Diada Current	V <sub>OUT</sub> < 0V		-50	
I <sub>OK</sub>	DC Output Diode Current	$V_{OUT} > V_{CC}$		+50	mA
I <sub>OH</sub> / I <sub>OL</sub>	DC Output Source / Sink Curre	ent		±50	mA
lo	Continuous Output Current			±20	mA
ICC Or IGND	DC V <sub>CC</sub> or Ground Current per	Supply Pin		±50	mA
T <sub>STG</sub>	Storage Temperature Range		-65	+150	°C
TJ	Junction Temperature Under E	lias		+150	°C
TL	Junction Lead Temperature, S	oldering 10s		+260	°C
Р	Dower Discinction at 195°C	MicroPak-6		130	m)//
P <sub>D</sub>	Power Dissipation at +85°C	MicroPak2-6		120	mW
	Human Body Model, JEDEC:J	ESD22-A114		5000+	V
ESD	Charged Device Model, JEDE	C:JESD22-C101		1500	V

#### Note:

3. I<sub>O</sub> absolute maximum rating must be observed.

# Recommended Operating Conditions<sup>(4)</sup>

The Recommended Operating Conditions table defines the conditions for actual device operation. Recommended operating conditions are specified to ensure optimal performance to the datasheet specifications. Fairchild does not recommend exceeding them or designing to Absolute Maximum Ratings.

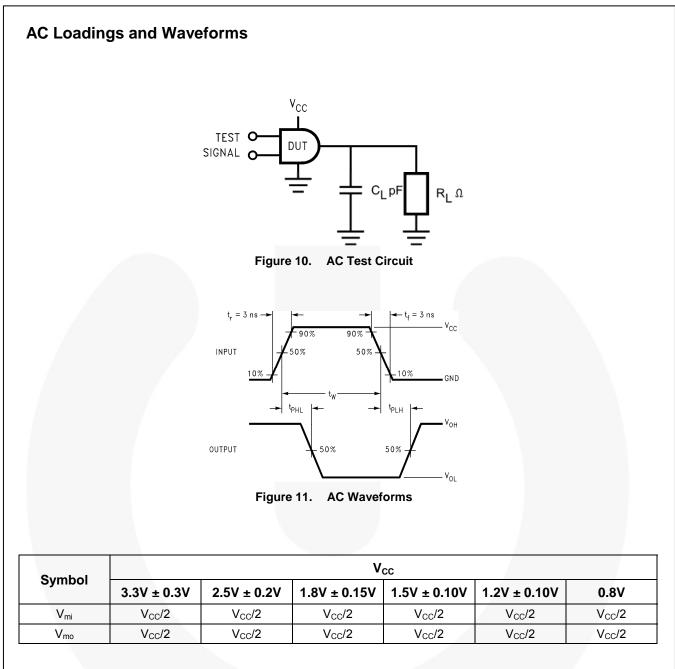
Symbol	Parameter	Conditions	Min.	Max.	Unit	
V <sub>cc</sub>	Supply Voltage		0.8	3.6	V	
V <sub>IN</sub>	Input Voltage		0	3.6	V	
V		V <sub>CC</sub> =0V	0	3.6	v	
V <sub>OUT</sub>	Output Voltage	HIGH or LOW State	0	Vcc		
	Output Current	V <sub>CC</sub> =3.0V to 3.6V		±4.0		
		V <sub>CC</sub> =2.3V to 2.7V		±3.1	mA	
1 /1		V <sub>CC</sub> =1.65V to 1.95V		±1.9		
I <sub>OH</sub> /I <sub>OL</sub>		V <sub>CC</sub> =1.4V to 1.6V		±1.7	D	
		V <sub>CC</sub> =1.1V to 1.3V		±1.1		
		V <sub>CC</sub> =0.8V		±20.0	μA	
T <sub>A</sub>	Operating Temperature, Free Air		-40	+85	°C	
0	Thermal Desistance	MicroPak-6		500	°C 141	
$\theta_{JA}$	Thermal Resistance	MicroPak2-6		560	°C/W	

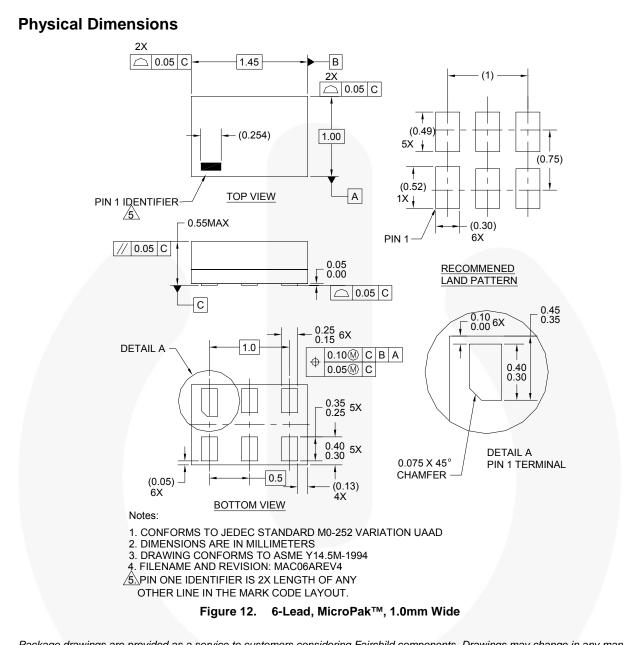
#### Note:

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

	_			T <sub>A</sub> =+2	25°C	T <sub>A</sub> =-40 t	o +85°C	Units	
Symbol	Parameter	V <sub>cc</sub>	Conditions	Min.	Max.	Min.	Max.	Units	
		0.80		0.30	0.60	0.30	0.60		
		1.10		0.53	0.90	0.53	0.90		
	Positive Threshold	1.40		0.74	1.11	0.74	1.11		
VP	Voltage	1.65		0.91	1.29	0.91	1.29	V	
		2.30		1.37	1.77	1.37	1.77		
		3.00		1.88	2.29	1.88	2.29		
		0.80		0.10	0.60	0.10	0.60		
	-	1.10		0.26	0.65	0.26	0.65		
V <sub>N</sub>	Negative	1.40		0.39	0.75	0.39	0.75	v	
۷N	Threshold Voltage	1.65		0.47	0.84	0.47	0.84	v	
		2.30		0.69	1.04	0.69	1.04		
		3.00		0.88	1.24	0.88	1.24		
		0.80		0.07	0.50	0.07	0.50		
Vн	Hysteresis Voltage	1.10		0.08	0.46	0.08	0.46	V	
		1.40		0.18	0.56	0.18	0.56		
vп		1.65		0.27	0.66	0.27	0.66		
		2.30		0.53	0.92	0.53	0.92		
		3.00		0.79	1.31	0.79	1.31		
	HIGH Level Output Voltage	$0.80 \leq V_{CC} \leq 3.60$	I <sub>ОН</sub> =-20µА	V <sub>CC</sub> -0.1		V <sub>CC</sub> -0.1		v	
		$1.10 \leq V_{CC} \leq 1.30$	I <sub>OH</sub> =-1.1mA	$0.75 \text{ x V}_{CC}$		0.70 x V <sub>CC</sub>			
		$1.40 \leq V_{CC} \leq 1.60$	I <sub>OH</sub> =-1.7mA	1.11		1.03			
V <sub>он</sub>		$1.65 \leq V_{CC} \ \leq 1.95$	I <sub>OH</sub> =-1.9mA	1.32		1.30			
• 011		$2.30 \leq V_{CC} \leq 2.70$ $3.00 \leq V_{CC} \leq 3.60$	I <sub>OH</sub> =-2.3mA	2.05		1.97			
			I <sub>OH</sub> =-3.1mA	1.90		1.85			
			I <sub>OH</sub> =-2.7mA	2.72		2.67			
		0.00 = 700 = 0.00	I <sub>OH</sub> =-4.0mA	2.60		2.55			
		$0.80 \leq V_{CC} \leq 3.60$	Ι <sub>ΟL</sub> =20μΑ		0.10		0.10	/	
		$1.10 \leq V_{CC} \leq 1.30$	I <sub>OL</sub> =1.1mA		$0.30 \ x \ V_{CC}$		$0.30 \ x \ V_{CC}$		
		$1.40 \leq V_{CC} \leq 1.60$	I <sub>OL</sub> =1.7mA		0.31		0.37		
V <sub>OL</sub>	LOW Level Output	$1.65 \leq V_{C\!C\!} \leq 1.95$	I <sub>OL</sub> =1.9mA		0.31		0.35	v	
VOL	Voltage	$2.30 \le V_{CC} \le 2.70$	I <sub>OL</sub> =2.3mA		0.31		0.33	v	
		$2.30 \leq V_{CC} \leq 2.70$	I <sub>OL</sub> =3.1mA		0.44		0.45		
		$2.70 \leq V_{CC} \leq 3.60$	I <sub>OL</sub> =2.7mA		0.31		0.33		
		2.70 ≤ VCC ≤ 3.00	I <sub>OL</sub> =4.0mA		0.44		0.45		
I <sub>IN</sub>	Input Leakage Current	0V to 3.6V	$0 \leq V_{IN} \leq 3.6$		±0.1		±0.5	μA	
I <sub>OFF</sub>	Power Off Leakage Current	0V	$0 \leq (V_{IN},V_O) {\leq} 3.6$		0.2		0.6	μA	
$\Delta I_{OFF}$	Additional Power Off Leakage Current	0V to 0.2V	V <sub>IN</sub> or V <sub>O</sub> = 0V to 3.6V		0.2		0.6	μA	
Icc	Quiescent Supply Current	0.8V to 3.6V	V <sub>IN</sub> - V <sub>CC</sub> or GND		0.5		0.9	μA	
			$V_{CC} \leq V_{IN} \leq 3.6$				±0.9	Ĺ	
$\Delta I_{CC}$	Increase in I <sub>CC</sub> per Input	3.3V	$V_{IN} = V_{CC} - 0.6V$		40.0		50.0	μA	

Symbol	Parameter	V <sub>cc</sub>	Conditions	T <sub>A</sub> =+25°C		T <sub>A</sub> =-40 to +85°C		Units	Figure	
-,				Min.	Тур.	Max	Min	Max		U
		0.80			25.1					
		$1.10 \leq V_{CC} \leq 1.30$		2.8	8.6	12.6	2.5	13.0		
		$1.40 \leq V_{CC} \leq 1.60$		2.3	5.2	7.6	2.5	8.2	_	
		$1.65 \leq V_{CC} \leq 1.95$	$C_L=5pF, R_L=1M\Omega$	2.1	4.3	6.2	2.0	6.8		
		$2.30 \leq V_{CC} \leq 2.70$		1.9	3.3	4.8	1.7	5.3		
		$3.00 \leq V_{CC} \leq 3.60$		1.6	3.1	3.9	1.5	4.1		
		0.80			29.4					
		$1.10 \leq V_{CC} \leq 1.30$		3.2	9.4	14.3	2.9	14.9	-	
		$1.40 \leq V_{CC} \leq 1.60$	C <sub>L</sub> =10pF,	2.6	6.3	8.7	2.8	9.4		Figure 10 Figure 11
	Propagation Delay	$1.65 \leq V_{CC} \leq 1.95$	$R_L=1M\Omega$	2.2	4.9	7.0	2.1	7.8	ns	
		$2.30 \leq V_{CC} \leq 2.70$		2.0	4.2	5.2	2.1	5.9		
		$3.00 \leq V_{CC} \leq 3.60$		1.9	3.6	4.6	1.7	4.9		
		0.80			31.3					
		$1.10 \leq V_{CC} \leq 1.30$		3.6	9.6	16.0	3.2	16.7		
		$1.40 \leq V_{CC} \leq 1.60$	C <sub>L</sub> =15pF,	2.9	6.3	9.6	3.1	10.4		
		$1.65 \leq V_{CC} \leq 1.95$	R <sub>L</sub> =1MΩ	2.4	5.4	7.8	2.3	8.7		
		$2.30 \leq V_{CC} \leq 2.70$		2.3	4.7	5.8	2.1	6.5		
		$3.00 \leq V_{CC} \leq 3.60$		2.0	4.0	5.1	1.8	5.5		
		0.80			32.1					
		$1.10 \leq V_{CC} \leq 1.30$		3.4	9.5	18.5	3.4	19.0		
		$1.40 \leq V_{CC} \leq 1.60$	C <sub>L</sub> =30pF, R <sub>L</sub> =1MΩ	3.1	5.9	10.5	3.1	11.0		
		$1.65 \leq V_{CC} \leq 1.95$		1.8	4.8	8.7	1.8	9.5		
		$2.30 \leq V_{CC} \leq 2.70$		1.7	3.7	6.5	1.7	7.1		
		$3.00 \leq V_{CC} \leq 3.60$		1.3	3.1	5.6	1.3	6.3		
C <sub>IN</sub>	Input Capacitance	0			2.1				pF	
C <sub>OUT</sub>	Output Capacitance	0			3,0				pF	
		0.80			1.7					
		$1.10 \leq V_{CC} \leq 1.30$			1.8					
C	Power Dissipation	$1.40 \leq V_{CC} \leq 1.60$	$V_{IN}$ =0V or $V_{CC}$ ,		1.81				рĘ	
C <sub>PD</sub>	Capacitance	$1.65 \leq V_{CC} \leq 1.95$	f=10MHz		1.84				pF	
		$2.30 \leq V_{CC} \leq 2.70$			2.1					
		$3.00 \leq V_{CC} \leq 3.60$			2.5					





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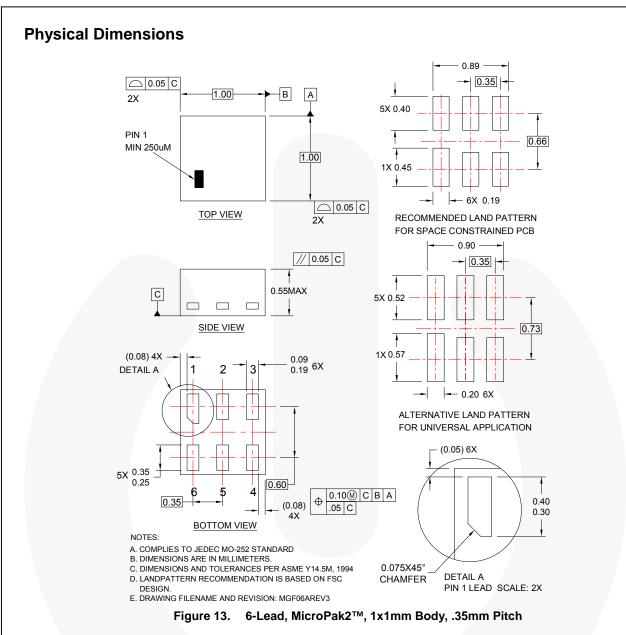
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Package Designator	Tape Section	Cavity Number	Cavity Status	Cover Type Status	
	Leader (Start End)	125 (Typical)	Empty	Sealed	
L6X	Carrier	5000	Filled	Sealed	
	Trailer (Hub End)	75 (Typical)	Empty	Sealed	

74AUP1G97 — TinyLogic<sup>®</sup> Low Power Universal Configurable Two-Input Logic Gate



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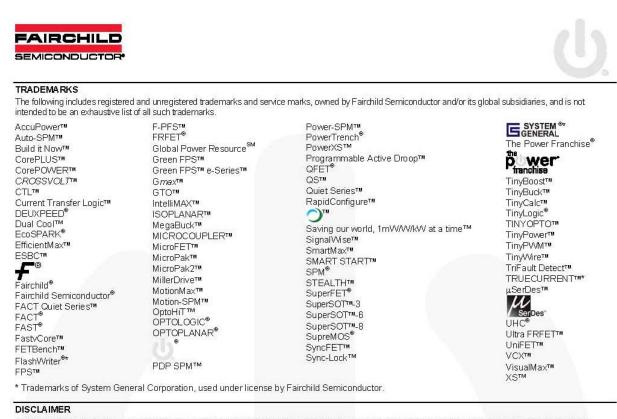
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Package Designator	Tape Section	Cavity Number	Cavity Status	Cover Type Status	
	Leader (Start End)	125 (Typical)	Empty	Sealed	
FHX	Carrier	5000	Filled	Sealed	
	Trailer (Hub End)	75 (Typical)	Empty	Sealed	



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#### PRODUCT STATUS DEFINITIONS

Demnuon or remis	finition of Terms	Definition
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Datasheet Identification	Product Status	Definition
Advance Information	Formative / In Design	Datasheet contains the design specifications for product development. Specifications may change in any manner without notice.
Preliminary	First Production	Datasheet contains preliminary data; supplementary data will be published at a later date. Fairchild Semiconductor reserves the right to make changes at any time without notice to improve design.
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Rev. 150

74AUP1G97 —

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