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October 2010

74AUP1G57 TinyLogic[®] Low Power Universal Configurable Two-Input Logic Gate

Features

- 0.8V to 3.6V V_{CC} Supply Operation
- 3.6V Over-Voltage Tolerant I/Os at V_{CC} from 0.8V to 3.6V
- High Speed tpd
 - 2.9ns: Typical at 3.3V
- Power-Off High-Impedance Inputs and Outputs
- Low Static Power Consumption
 - I_{CC}=0.9µA Maximum
- Low Dynamic Power Consumption
 - CPD=2.9pF Typical at 3.3V
- Ultra-Small MicroPak™ Packages

Description

The 74AUP1G57 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 74AUP1G57 provides for multiple functions as determined by various configurations of the three inputs. The potential logic functions provided are AND, NAND, OR, NOR, and XNOR, inverter and buffer. Refer to Figures 2 to 8.

Ordering Information

Part Number	Top Mark	Package	Packing Method
74AUP1G57L6X	AB	6-Lead Micropak™, 1.0mm Wide	5000 Units on Tape & Reel
74AUP1G57FHX	AB	6-Lead, MicroPak2™, 1x1mm Body, .35mm Pitch	5000 Units on Tape & Reel

Pin Configurations

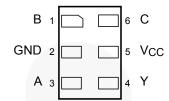


Figure 1. MicroPak™ (Top Through View)

Pin Definitions

Pin #	Name	Description
1	В	Data Input
2	GND	Ground
3	Α	Data Input
4	Υ	Output
5	V _{cc}	Supply Voltage
6	С	Data Input

Function Table

	Inputs		74AUP1G57		
С	В	Α	Y=Output		
L	L	L	Н		
L	L	Н	L		
L	Н	L	Н		
L	Н	Н	L		
Н	L	L	L		
Н	L	Н	L		
Н	Н	L	Н		
Н	Н	Н	Н		

H = HIGH Logic Level L = LOW Logic Level

Function Selection Table

2-Input Logic Function	Connection Configuration		
2-Input AND	Figure 2		
2-Input AND with Both Inputs Inverted	Figure 5		
2-Input NAND with Inverted Input	Figure 3, Figure 4		
2-Input OR with Inverted Input	Figure 3, Figure 4		
2-Input NOR	Figure 5		
2-Input NOR with Both Inputs Inverted	Figure 2		
2-Input XNOR	Figure 6		
Inverter	Figure 7		
Buffer	Figure 8		

74AUP1G57 Logic Configurations

Figure 2 through Figure 8 show the logical functions that can be implemented using the 74AUP1G57. The diagrams show the DeMorgan's equivalent logic duals for a given two-input function. The logical

implementation is next to the board-level physical implementation of how the pins of the function should be connected.

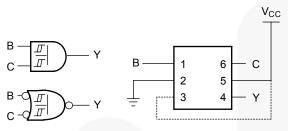


Figure 2. 2-Input AND Gate or 2-Input NOR with Both Inputs Inverted

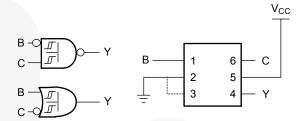


Figure 3. 2-Input NAND with Inverted B Input or 2-Input OR Gate with Inverted C Input

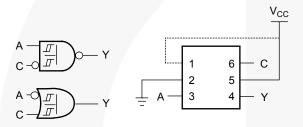


Figure 4. 2-Input NAND with Inverted C Input or 2-Input OR Gate with Inverted A Input

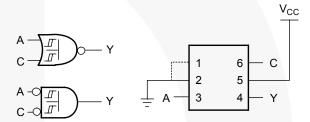


Figure 5. 2-Input NOR Gate or 2-Input AND Gate with Both Inputs Inverted

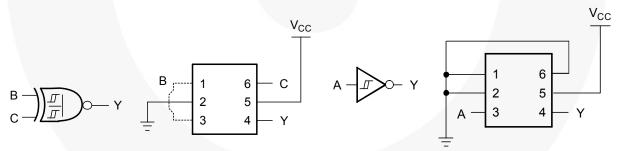


Figure 6. 2-Input XNOR Gate

Figure 7. Inverter

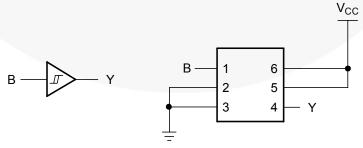


Figure 8. Non-Inverter Buffer

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	Para	ameter	Min.	Max.	Unit
V _{CC}	Supply Voltage		-0.5	4.6	V
V _{IN}	DC Input Voltage		-0.5	4.6	V
\/	DC Output Voltage	HIGH or LOW State ⁽¹⁾	-0.5	V _{CC} + 0.5	V
V _{OUT}	DC Output Voltage	V _{CC} =0V	-0.5	4.6	V
I _{IK}	DC Input Diode Current	V _{IN} < 0V		-50	mA
,	DC Outrout Diada Comment	V _{OUT} < 0V		-50	A
I _{OK}	DC Output Diode Current	V _{OUT} > V _{CC}		+50	mA
I _{OH} / I _{OL}	DC Output Source / Sink Curre	nt		±50	mA
I _{CC} or I _{GND}	DC V _{CC} or Ground Current per	Supply Pin	-	±50	mA
T _{STG}	Storage Temperature Range		-65	+150	°C
T_J	Junction Temperature Under B	ias		+150	°C
T_L	Junction Lead Temperature, So	oldering 10s		+260	°C
Ъ	Dower Dissinction at 195°C	MicroPak-6		130	mW
P_{D}	Power Dissipation at +85°C	MicroPak2-6		120	IIIVV
ESD	Human Body Model, JEDEC:JE		5000+	V	
ESD	Charged Device Model, JEDEC	C:JESD22-C101		2000	V

Note:

Recommended Operating Conditions⁽²⁾

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	
Vcc	Supply Voltage		0.8	3.6	V	
V_{IN}	Input Voltage		0	3.6	V	
V	Output Voltage	V _{CC} =0V	0	3.6	V	
V_{OUT}	Output Voltage	HIGH or LOW State	0	Vcc	7 °	
	Output Current	V _{CC} =3.0V to 3.6V		±4.0		
		V _{CC} =2.3V to 2.7V		±3.1	1	
1 /1		V _{CC} =1.65V to 1.95V		±1.9	mA	
I _{OH} /I _{OL}		V _{CC} =1.4V to 1.6V		±1.7		
		V _{CC} =1.1V to 1.3V		±1.1	D	
		V _{CC} =0.8V		±20.0	μA	
T _A	Operating Temperature, Free Air		-40	+85	°C	
0	Thormal Posistance	MicroPak-6		500	°CAM	
$ heta_{\sf JA}$	Thermal Resistance	MicroPak2-6		560	°C/W	

Note:

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

^{1.} I_O absolute maximum rating must be observed.

DC Electrical Characteristics

		.,		T _A =+	25°C	T _A =-40 to +85°C		
Symbol	Parameter	V _{cc}	Conditions	Min.	Max.	Min.	Max.	Uni
		0.80		0.30	0.60	0.30	0.60	
		1.10	1	0.53	0.90	0.53	0.90	
	Positive Threshold	1.40		0.74	1.11	0.74	1.11	
V_P	Voltage	1.65		0.91	1.29	0.91	1.29	٧
		2.30	-	1.37	1.77	1.37	1.77	
		3.00	<u> </u>	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	
	Negative	1.40	-	0.39	0.75	0.39	0.75	
V_N	Threshold Voltage	1.65		0.47	0.84	0.47	0.84	١
		2.30	-	0.69	1.04	0.69	1.04	
		3.00	1	0.88	1.24	0.88	1.24	
		0.80		0.07	0.50	0.07	0.50	
		1.10	-	0.08	0.46	0.08	0.46	
	ý	1.40	-	0.18	0.56	0.18	0.56	
V_{H}	Hysteresis Voltage	1.65	-	0.27	0.66	0.27	0.66	١
		2.30	_	0.53	0.92	0.53	0.92	
		3.00	-	0.79	1.31	0.79	1.31	
			1 - 2011	V _{CC} -0.1	1.51	V _{CC} -0.1	1.51	
		$0.80 \le V_{CC} \le 3.60$	I _{OH} =-20μA					
		1.10 ≤ V _{CC} ≤ 1.30	I _{OH} =-1.1mA	0.75 x V _{CC}		0.70 x V _{CC}		
		1.40 ≤ V _{CC} ≤ 1.60	I _{OH} =-1.7mA	1.11		1.03		
V_{OH}	HIGH Level Output	$1.65 \le V_{CC} \le 1.95$	I _{OH} =-1.9mA	1.32		1.30		١
	Voltage	$2.30 \le V_{CC} \le 2.70$	I _{OH} =-2.3mA	2.05		1.97		
			I _{OH} =-3.1mA	1.90		1.85		
		$3.00 \le V_{CC} \le 3.60$	I _{OH} =-2.7mA	2.72		2.67		
			I _{OH} =-4.0mA	2.60		2.55		
		$0.80 \leq V_{CC} \leq 3.60$	I _{OL} =20μA		0.10		0.10	
		$1.10 \leq V_{CC} \leq 1.30$	I _{OL} =1.1mA		0.30 x V _{CC}		0.30 x V _{CC}	
		$1.40 \leq V_{CC} \leq 1.60$	I _{OL} =1.7mA		0.31		0.37	
V_{OL}	LOW Level Output	$1.65 \leq V_{CC} \leq 1.95$	I _{OL} =1.9mA		0.31		0.35	\
V OL	Voltage	2.20 < 1/ < 2.70	I _{OL} =2.3mA		0.31		0.33	Ì ,
		$2.30 \leq V_{CC} \leq 2.70$	I _{OL} =3.1mA		0.44		0.45	
		0.70 (1/4 (0.00	I _{OL} =2.7mA		0.31		0.33	
		$2.70 \leq V_{CC} \leq 3.60$	I _{OL} =4.0mA		0.44		0.45	
I _{IN}	Input Leakage Current	0V to 3.6V	$0 \leq V_{IN} \leq 3.6$		±0.1		±0.5	μ
I _{OFF}	Power Off Leakage Current	0V	$0 \leq (V_{IN}, V_O) \leq 3.6$		0.2		0.6	μ
Δl_{OFF}	Additional Power Off Leakage Current	0V to 0.2V	V _{IN} or V _O =0V to 3.6V		0.2		0.6	μ
	Quiescent Supply	0.01/4-2.01/	V _{IN} - V _{CC} or GND		0.5		0.9	
I _{CC}	Current	0.8V to 3.6V	$V_{CC} \leq V_{IN} \leq 3.6$				±0.9	μ
Δlcc	Increase in I _{CC} per Input	3.3V	V _{IN} =V _{CC} -0.6V		40.0		50.0	μ

AC Electrical Characteristics

Symbol	ymbol Parameter V _{cc}		Conditions	1		С		-40 to 5°C	Units	Figure
				Min.	Тур.	Max	Min.	Max.		
		0.80			22.1					
		$1.10 \le V_{CC} \le 1.30$		2.5	6.5	12.6	2.5	13.0		
		$1.40 \le V_{CC} \le 1.60$	0 5 5 D 4M0	2.2	4.6	7.6	2.2	8.2		
		$1.65 \le V_{CC} \le 1.95$	$C_L=5pF, R_L=1M\Omega$	2.0	3.9	6.2	2.0	6.8		
		$2.30 \leq V_{CC} \leq 2.70$		1.7	3.1	4.5	1.7	5.1		
		$3.00 \leq V_{CC} \leq 3.60$		1.3	2.9	3.9	1.3	4.1		
		0.80			27.1					
		$1.10 \leq V_{CC} \leq 1.30$		3.2	7.6	14.4	2.8	14.9		
		$1.40 \leq V_{CC} \leq 1.60$	C _L =10pF,	2.6	5.3	8.7	2.8	9.3		
		$1.65 \leq V_{CC} \leq 1.95$	$R_L=1M\Omega$	2.2	4.6	7.0	2.2	7.8		
		$2.30 \leq V_{CC} \leq 2.70$		1.9	3.7	5.2	1.9	5.9		Figure 9
t _{PHL} , t _{PLH}	Propagation	$3.00 \leq V_{CC} \leq 3.60$		1.3	2.8	4.6	1.3	4.9	ns	
PHL, PLH	Delay	0.80			32.6				113	Figure 10
		$1.10 \le V_{CC} \le 1.30$	C_L =15pF, R_L =1M Ω	3.4	8.3	15.7	3.1	16.7	- - - -	
		$1.40 \leq V_{CC} \leq 1.60$		2.8	5.8	9.4	3.1	10.4		
		$1.65 \leq V_{CC} \leq 1.95$		2.5	5.1	7.9	2.5	8.7		
		$2.30 \leq V_{CC} \leq 2.70$		2.1	4.0	6.1	2.1	6.9		
		$3.00 \leq V_{CC} \leq 3.60$		1.3	3.2	5.0	1.3	5.5		
		0.80			25.4					
		$1.10 \leq V_{CC} \leq 1.30$		3.4	8.6	18.5	3.4	19.0		
		$1.40 \le V_{CC} \le 1.60$	C _L =30pF,	3.1	5.5	10.5	3.1	11.0		
		$1.65 \leq V_{CC} \leq 1.95$	$R_L=1M\Omega$	2.1	4.5	8.7	2.1	9.5		
		$2.30 \leq V_{CC} \leq 2.70$		1.5	3.4	6.9	1.5	7.4		
		$3.00 \leq V_{CC} \leq 3.60$		1.1	2.9	5.9	1.1	6.3		
C_{IN}	Input Capacitance	0			0.8				pF	
Соит	Output Capacitance	0			1.7				pF	
		0.80			1.8					
	V.	$1.10 \leq V_{CC} \leq 1.30$			1.82					
C_PD	Power Dissipation	$1.40 \leq V_{CC} \leq 1.60$	V _{IN} =0V or V _{CC} ,		1.85					
OPD	Capacitance	$1.65 \le V_{CC} \le 1.95$	f=10MHz		1.9				pF	
		$2.30 \leq V_{CC} \leq 2.70$			2.1					
		$3.00 \leq V_{CC} \leq 3.60$			2.9					KI

AC Loadings and Waveforms

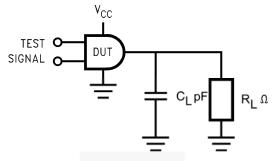


Figure 9. AC Test Circuit

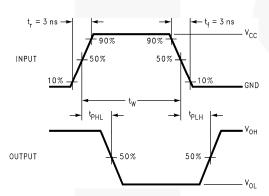
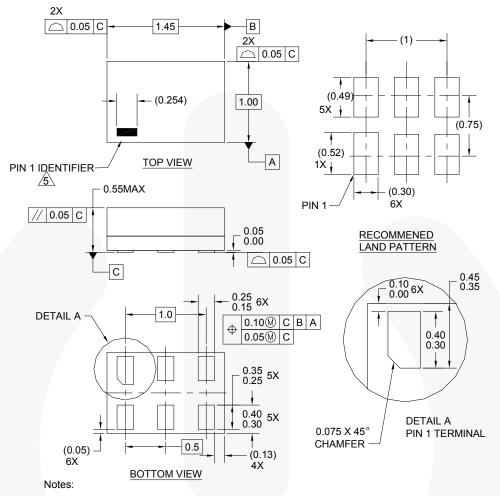


Figure 10. AC Waveforms

Symbol			V	СС		
Symbol	3.3V ± 0.3V	2.5V ± 0.2V	1.8V ± 0.15V	1.5V ± 0.10V	1.2V ± 0.10V	V8.0
V _{mi}	V _{CC} /2					
V_{mo}	V _{CC} /2					

Physical Dimensions



- 1. CONFORMS TO JEDEC STANDARD M0-252 VARIATION UAAD
- 2. DIMENSIONS ARE IN MILLIMETERS
- 3. DRAWING CONFORMS TO ASME Y14.5M-1994
- 4. FILENAME AND REVISION: MAC06AREV4
- 5 PIN ONE IDENTIFIER IS 2X LENGTH OF ANY

OTHER LINE IN THE MARK CODE LAYOUT.

Figure 11. 6-Lead, MicroPak™, 1.0mm Wide

Package drawings are provided as a service to customers considering Fairchild components. Drawings may change in any manner without notice. Please note the revision and/or date on the drawing and contact a Fairchild Semiconductor representative to verify or obtain the most recent revision. Package specifications do not expand the terms of Fairchild's worldwide terms and conditions, specifically the warranty therein, which covers Fairchild products.

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Tape and Reel Specifications

Please visit Fairchild Semiconductor's online packaging area for the most recent tape and reel specifications: http://www.fairchildsemi.com/products/logic/pdf/micropak_tr.pdf.

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

Physical Dimensions

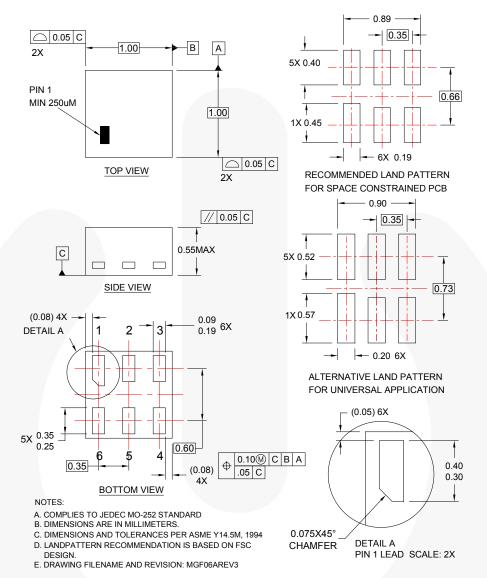


Figure 12. 6-Lead, MicroPak2™, 1x1mm Body, .35mm Pitch

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Tape and Reel Specifications

Please visit Fairchild Semiconductor's online packaging area for the most recent tape and reel specifications: http://www.fairchildsemi.com/packaging/MicroPAK2_6L_tr.pdf.

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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SUPERFET®
SuperSOT™3
SuperSOT™6
SuperSOT™8
SuperSOT™8
SupreMOS®
SyncFET™
Sync-Lock™

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Fired Detection

Tiny Were

Tiny Boostrom

Tiny Boostrom

Tiny Calctom

Tiny Calctom

Tiny OPTOTOM

Tiny POWERTOM

Tiny POWERTOM

Tiny POWERTOM

Tiny Fault Detectrom

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SerDes
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UniFET™
VCX™
VisualMax™
XS™

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