

Is Now Part of



ON Semiconductor®

To learn more about ON Semiconductor, please visit our website at www.onsemi.com

Please note: As part of the Fairchild Semiconductor integration, some of the Fairchild orderable part numbers will need to change in order to meet ON Semiconductor's system requirements. Since the ON Semiconductor product management systems do not have the ability to manage part nomenclature that utilizes an underscore (_), the underscore (_) in the Fairchild part numbers will be changed to a dash (-). This document may contain device numbers with an underscore (_). Please check the ON Semiconductor website to verify the updated device numbers. The most current and up-to-date ordering information can be found at www.onsemi.com. Please email any questions regarding the system integration to Fairchild <a href="general-regarding-numbers-n

ON Semiconductor and the ON Semiconductor logo are trademarks of Semiconductor Components Industries, LLC dba ON Semiconductor or its subsidiaries in the United States and/or other countries. ON Semiconductor owns the rights to a number of patents, trademarks, copyrights, trade secrets, and other intellectual property. A listing of ON Semiconductor's product/patent coverage may be accessed at www.onsemi.com/site/pdf/Patent-Marking.pdf. ON Semiconductor reserves the right to make changes without further notice to any products herein. ON Semiconductor makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does ON Semiconductor assume any liability arising out of the application or use of any product or circuit, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages. Buyer is responsible for its products and applications using ON Semiconductor products, including compliance with all laws, regulations and safety requirements or standards, regardless of any support or applications information provided by ON Semiconductor. "Typical" parameters which may be provided in ON Semiconductor data sheets and/or specifications can and do vary in different applications and actual performance may vary over time. All operating parameters, including "Typicals" must be validated for each customer application by customer's technical experts. ON Semiconductor does not convey any license under its patent rights nor the rights of others. ON Semiconductor products are not designed, intended, or authorized for use as a critical component in life support systems or any EDA Class 3 medical devices or medical devices with a same or similar classification in a foreign jurisdiction or any devices intended for implantation in the human body. Should Buyer purchase or use ON Semiconductor products for any such unintended or unauthorized application, Buyer shall indemnify and hold ON Semiconductor and its officer



October 2010

74AUP1G97 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
 - 3.1ns: Typical at 3.3V
- Power-Off High-Impedance Inputs and Outputs
- Low Static Power Consumption
 - I_{CC}=0.9µA Maximum
- Low Dynamic Power Consumption
 - C_{PD}=2.5pF Typical at 3.3V
- Ultra-Small MicroPak™ 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.

Ordering Information

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

Logic Diagram

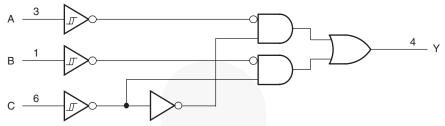


Figure 1. Logic Diagram (Positive Logic)

Pin Configurations

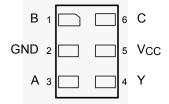


Figure 2. MicroPak™ (Top Through View)

Pin Definitions

Pin #	Name	Description
1	В	Data Input
2	GND	Ground
3	A	Data Input
4	Y	Output
5	V _{CC}	Supply Voltage
6	С	Data Input

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

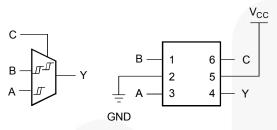
Function Selection Table

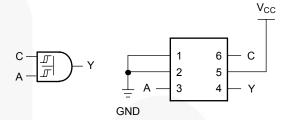
2-Input Logic Function	Connection Configuration		
2-to-1 MUX	Figure 3		
2-Input AND Gate	Figure 4		
2-Input OR Gate with One Inverted Input	Figure 5		
2-Input NAND Gate with One Inverted Input	Figure 5		
2-Input AND Gate with One Inverted Input	Figure 6		
2-Input NOR Gate with One Inverted Input	Figure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

74AUP1G97 Logic Configurations

Figure 3 through Figure 9 show the logical functions that can be implemented using the 74AUP1G97. 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.



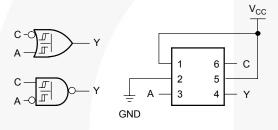


Note:

- 1. When C is L, Y=B.
- 2. When C is H, Y=A.

Figure 3. 2-to-1 MUX

Figure 4. 2-Input AND Gate



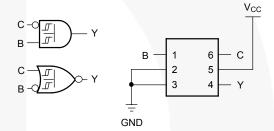


Figure 5. Input OR Gate with One Inverted Input
2-Input NAND Gate with One Inverted Input

Figure 6. 2-Input AND Gate with One Inverted Input 2-Input NOR Gate with One Inverted Input

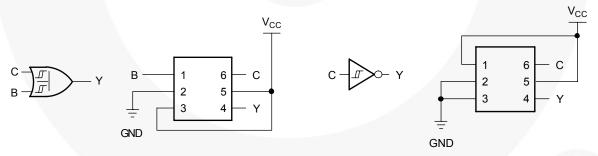


Figure 7. 2-Input OR Gate

Figure 8. Inverter

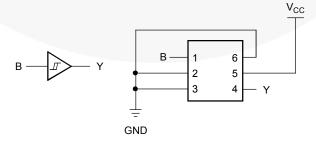


Figure 9. Buffer

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
V	DC Output Voltage	HIGH or LOW State ⁽³⁾	-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 Output Diada Current	V _{OUT} < 0V		-50	m ^
l _{OK}	OC Output Diode Current	$V_{OUT} > V_{CC}$		+50	mA
I _{OH} / I _{OL}	DC Output Source / Sink Curre		±50	mA	
Io	Continuous Output Current			±20	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
TL	Junction Lead Temperature, So	oldering 10s		+260	°C
В	Power Dissipation at ±95°C	MicroPak-6		130	m\A/
P_D	Power Dissipation at +85°C	MicroPak2-6		120	mW
ESD	Human Body Model, JEDEC:JE		5000+	V	
ESD	Charged Device Model, JEDEC:JESD22-C101			1500	V

Note:

3. I_O absolute maximum rating must be observed.

Recommended Operating Conditions⁽⁴⁾

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 _{CC}	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	V _{CC}	7 V	
		V _{CC} =3.0V to 3.6V		±4.0		
	Output Current	V _{CC} =2.3V to 2.7V		±3.1		
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	D	
		V _{CC} =1.1V to 1.3V		±1.1		
		V _{CC} =0.8V		±20.0	μA	
T_A	Operating Temperature, Free Air		-40	+85	°C	
0	Thermal Decistores	MicroPak-6		500	°C/W	
$ heta_{\sf JA}$	Thermal Resistance	MicroPak2-6		560		

Note:

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

DC Electrical Characteristics

Cumb at	Dorossatas	V	Conditions	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		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	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	1	0.26	0.65	0.26	0.65	
	Negative	1.40	1	0.39	0.75	0.39	0.75	
V_N	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	
		1.10		0.08	0.46	0.08	0.46	
	5	1.40		0.18	0.56	0.18	0.56	
V_{H}	Hysteresis Voltage	1.65	-	0.10	0.66	0.10	0.66	٧
		2.30	-	0.53	0.92	0.53	0.92	
		3.00	-	0.33	1.31	0.33	1.31	
			L = 20A		1.31		1.31	
		$0.80 \le V_{CC} \le 3.60$	Ι _{ΟΗ} =-20μΑ	V _{CC} -0.1		V _{CC} -0.1		
		1.10 ≤ V _{CC} ≤ 1.30	I _{OH} =-1.1mA	0.75 x V _{CC}		0.70 x V _{CC}		
		$1.40 \le V_{CC} \le 1.60$	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		V
	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	
		3.00 ± V(() ± 3.00	I _{OH} =-4.0mA	2.60		2.55		
		$0.80 \leq V_{CC} \leq 3.60$	I _{OL} =20μA		0.10		0.10	
		$1.10 \le V_{CC} \le 1.30$	I _{OL} =1.1mA		0.30 x V _{CC}		0.30 x V _{CC}	
		$1.40 \le V_{CC} \le 1.60$	I _{OL} =1.7mA		0.31		0.37	
.,	LOW Level Output	$1.65 \leq V_{CC} \leq 1.95$	I _{OL} =1.9mA		0.31		0.35	V
V_{OL}	Voltage		I _{OL} =2.3mA		0.31		0.33	\ \
		$2.30 \leq V_{CC} \leq 2.70$	I _{OL} =3.1mA		0.44		0.45	
			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	μΑ
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	μA
Icc	Quiescent Supply Current	0.8V to 3.6V	V _{IN} - V _{CC} or GND		0.5		0.9	μA
	Janon		$V_{CC} \leq V_{IN} \leq 3.6$				±0.9	
ΔI_{CC}	Increase in I _{CC} per Input	3.3V	V _{IN} = V _{CC} -0.6V		40.0		50.0	μA

AC Electrical Characteristics

Symbol	Parameter	V _{cc}	meter V _{CC} Conditions		7	Γ _A =+25°	С	T _A =-40 to +85°C		Units	Figure
1				Min.	Тур.	Max	Min	Max		3	
		0.80			25.1						
		$1.10 \le V_{CC} \le 1.30$		2.8	8.6	12.6	2.5	13.0			
		$1.40 \le V_{CC} \le 1.60$		2.3	5.2	7.6	2.5	8.2			
		$1.65 \le V_{CC} \le 1.95$	$C_L=5pF, R_L=1M\Omega$	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						
		$1.10 \le V_{CC} \le 1.30$		3.2	9.4	14.3	2.9	14.9			
		$1.40 \le V_{CC} \le 1.60$	C _L =10pF,	2.6	6.3	8.7	2.8	9.4			
		$1.65 \leq V_{CC} \leq 1.95$	$R_L=1M\Omega$	2.2	4.9	7.0	2.1	7.8			
		$2.30 \leq V_{CC} \leq 2.70$		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			
t _{PHL} , t _{PLH}	Propagation Delay	0.80			31.3				ns	Figure 10 Figure 11	
		$1.10 \leq V_{CC} \leq 1.30$	C _L =15pF, R _L =1MΩ	3.6	9.6	16.0	3.2	16.7	- - -	3	
	7	$1.40 \leq V_{CC} \leq 1.60$		2.9	6.3	9.6	3.1	10.4			
		$1.65 \leq V_{CC} \leq 1.95$		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 ≤ V _{CC} ≤ 1.30		3.4	9.5	18.5	3.4	19.0			
		1.40 ≤ V _{CC} ≤ 1.60	C_L =30pF, R_L =1M Ω	3.1	5.9	10.5	3.1	11.0			
		$1.65 \le V_{CC} \le 1.95$		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 _{IN}	Input Capacitance	0			2.1				pF		
C _{OUT}	Output Capacitance	0			3,0				pF		
		0.80			1.7						
		$1.10 \le V_{CC} \le 1.30$			1.8						
C_PD	Power Dissipation	$1.40 \le V_{CC} \le 1.60$	V _{IN} =0V or V _{CC} ,		1.81				pF		
950	Capacitance	$1.65 \leq V_{CC} \leq 1.95$	f=10MHz		1.84				۲,	$R_{\rm J}$	
		$2.30 \leq V_{CC} \leq 2.70$			2.1] \		
		$3.00 \leq V_{CC} \leq 3.60$			2.5						

AC Loadings and Waveforms

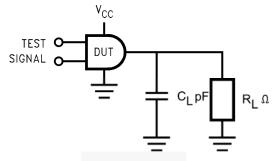


Figure 10. AC Test Circuit

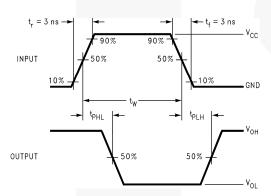
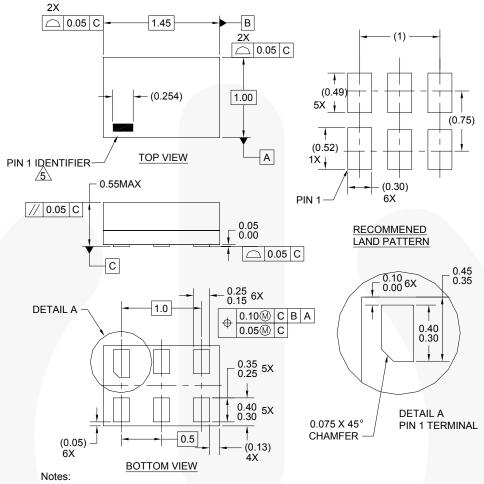


Figure 11. AC Waveforms

Symbol		V _{cc}				
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
- FILENAME AND REVISION: MAC06AREV4
- 5. PIN ONE IDENTIFIER IS 2X LENGTH OF ANY

OTHER LINE IN THE MARK CODE LAYOUT.

Figure 12. 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.

Always visit Fairchild Semiconductor's online packaging area for the most recent package drawings: http://www.fairchildsemi.com/packaging/.

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

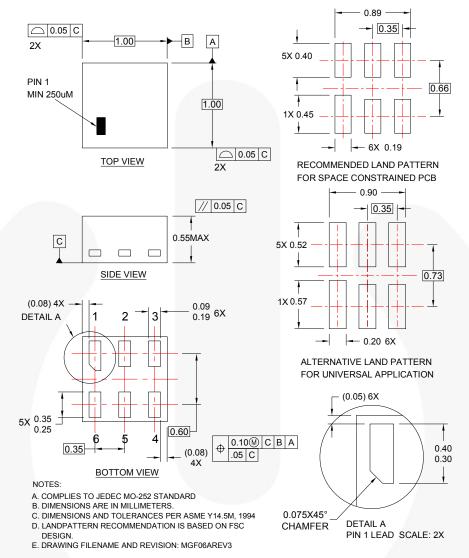


Figure 13. 6-Lead, MicroPak2™, 1x1mm Body, .35mm Pitch

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.

Always visit Fairchild Semiconductor's online packaging area for the most recent package drawings: http://www.fairchildsemi.com/packaging/.

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





TRADEMARKS

The following includes registered and unregistered trademarks and service marks, owned by Fairchild Semiconductor and/or its global subsidiaries, and is not intended to be an exhaustive list of all such trademarks.

AccuPower™
Auto-SPM™
Build it Now™
CorePLUS™
CorePOWER™
CROSSVOLT™
CTL™
Current Transfer Logic™

Current Transfer
DEUXPEED®
Dual Cool™
EcoSPARK®
EfficientMax™
ESBC™

F®
Fairchild®
Fairchild Semiconductor®
FACT Quiet Series™
FACT®
FAST®

FAST®
FastvCore™
FETBench™
FlashWriter®*
FPS™

F-PFS™ FRFET®

Global Power Resource^{sм}

Green FPS™ Green FPS™ e-Series™

G maxTM
GTOTM
IntelliMAXTM
ISOPLANARTM
MegaBuckTM
MICROCOUPLERTM

MicroFET™
MicroPak™
MicroPak2™
MillerDrive™
MotionMax™

MotionMax™ Motion-SPM™ OptoHiT™ OPTOLOGIC® OPTOPLANAR®

PDP SPM™

Power-SPM™ PowerTrench® PowerXS™

Programmable Active Droop™

QFET®
QS™
Quiet Series™
RapidConfigure™

Saving our world, 1mVV/VV/kVV at a time™

SignalWise™ SmartMax™ SMART START™ SPM®

SPM®
STEALTH™
SuperFET®
SuperSOT™.3
SuperSOT™.8
SuperSOT™.8
SupreMOS®
SyncFET™

Svnc-Lock™

The Power Franchise by Tranchise

TinyBoost™
TinyCalc™
TinyCalc™
TinyLogic®
TinyPoPTOT™
TinyPower™
TinyPower™
TinyPire™
TinyWire™
TripEult Detect™
TRUECURRENT™
u.SerDes™

SerDes
UHC®
Ultra FRFET™
UniFET™
VCX™
VisualMax™

DISCLAIMER

FAIRCHILD SEMICONDUCTOR RESERVES THE RIGHT TO MAKE CHANGES WITHOUT FURTHER NOTICE TO ANY PRODUCTS HEREIN TO IMPROVE RELIABILITY, FUNCTION, OR DESIGN. FAIRCHILD DOES NOT ASSUME ANY LIABILITY ARISING OUT OF THE APPLICATION OR USE OF ANY PRODUCT OR CIRCUIT DESCRIBED HEREIN, NEITHER DOES IT CONVEY ANY LICENSE UNDER ITS PATENT RIGHTS, NOR THE RIGHTS OF OTHERS. THESE SPECIFICATIONS DO NOT EXPAND THE TERMS OF FAIRCHILD'S WORLDWIDE TERMS AND CONDITIONS, SPECIFICALLY THE WARRANTY THEREIN, WHICH COVERS THESE PRODUCTS.

LIFE SUPPORT POLICY

FAIRCHILD'S PRODUCTS ARE NOT AUTHORIZED FOR USE AS CRITICAL COMPONENTS IN LIFE SUPPORT DEVICES OR SYSTEMS WITHOUT THE EXPRESS WRITTEN APPROVAL OF FAIRCHILD SEMICONDUCTOR CORPORATION.

As used herein

- Life support devices or systems are devices or systems which, (a) are intended for surgical implant into the body or (b) support or sustain life, and (c) whose failure to perform when properly used in accordance with instructions for use provided in the labeling, can be reasonably expected to result in a significant injury of the user.
- A critical component in any component of a life support, device, or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

ANTI-COUNTERFEITING POLICY

Fairchild Semiconductor Corporation's Anti-Counterfeiting Policy. Fairchild's Anti-Counterfeiting Policy is also stated on our external website, www.fairchildsemi.com, under Sales Support.

Counterfeiting of semiconductor parts is a growing problem in the industry. All manufacturers of semiconductor products are experiencing counterfeiting of their parts. Customers who inadvertently purchase counterfeit parts experience many problems such as loss of brand reputation, substandard performance, failed applications, and increased cost of production and manufacturing delays. Fairchild is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. Fairchild strongly encourages customers to purchase Fairchild parts either directly from Fairchild or from Authorized Fairchild Distributors who are listed by country on our web page cited above. Products customers buy either from Fairchild directly or from Authorized Fairchild Distributors are genuine parts, have full traceability, meet Fairchild's quality standards for handling and storage and provide access to Fairchild's full range of up-to-date technical and product information. Fairchild and our Authorized Distributors will stand behind all warranties and will appropriately address any warranty issues that may arise. Fairchild will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources. Fairchild is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.

PRODUCT STATUS DEFINITIONS

Definition of Terms

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.		
No Identification Needed	Full Production	Datasheet contains final specifications. Fairchild Semiconductor reserves the right to make changes at any time without notice to improve the design.		
Obsolete	Not In Production	Datasheet contains specifications on a product that is discontinued by Fairchild Semiconductor. The datasheet is for reference information only.		

Rev. 150

^{*} Trademarks of System General Corporation, used under license by Fairchild Semiconductor.

ON Semiconductor and in are trademarks of Semiconductor Components Industries, LLC dba ON Semiconductor or its subsidiaries in the United States and/or other countries. ON Semiconductor owns the rights to a number of patents, trademarks, copyrights, trade secrets, and other intellectual property. A listing of ON Semiconductor's product/patent coverage may be accessed at www.onsemi.com/site/pdt/Patent-Marking.pdf. ON Semiconductor reserves the right to make changes without further notice to any products herein. ON Semiconductor assume any liability arising out of the application or use of any product or circuit, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages. Buyer is responsible for its products and applications using ON Semiconductor products, including compliance with all laws, regulations and safety requirements or standards, regardless of any support or applications information provided by ON Semiconductor. "Typical" parameters which may be provided in ON Semiconductor data sheets and/or specifications can and do vary in different applications and actual performance may vary over time. All operating parameters, including "Typicals" must be validated for each customer application by customer's technical experts. ON Semiconductor does not convey any license under its patent rights nor the rights of others. ON Semiconductor products are not designed, intended, or authorized for use as a critical component in life support systems or any FDA Class 3 medical devices or medical devices with a same or similar classification in a foreign jurisdiction or any devices intended for implantation in the human body. Should Buyer purchase or use ON Semiconductor products for any such unintended or unauthorized application, Buyer shall indemnify and hold ON Semiconductor and its officers, employees, subsidiaries, affiliates, and distributors harmless against all claims, costs, damages, and exp

PUBLICATION ORDERING INFORMATION

LITERATURE FULFILLMENT:

Literature Distribution Center for ON Semiconductor 19521 E. 32nd Pkwy, Aurora, Colorado 80011 USA Phone: 303-675-2175 or 800-344-3860 Toll Free USA/Canada Fax: 303-675-2176 or 800-344-3867 Toll Free USA/Canada Email: orderlit@onsemi.com N. American Technical Support: 800–282–9855 Toll Free USA/Canada Europe, Middle East and Africa Technical Support: Phone: 421 33 790 2910 Japan Customer Focus Center Phone: 81–3–5817–1050 ON Semiconductor Website: www.onsemi.com

Order Literature: http://www.onsemi.com/orderlit

For additional information, please contact your local Sales Representative

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Logic Gates category:

Click to view products by ON Semiconductor manufacturer:

Other Similar products are found below:

74HC85N NLU1G32AMUTCG NLV7SZ58DFT2G CD4068BE NL17SG32P5T5G NL17SG86DFT2G NLV14001UBDR2G
NLX1G11AMUTCG NLX1G97MUTCG 74LS38 74LVC32ADTR2G MC74HCT20ADTR2G NLV17SZ00DFT2G NLV17SZ02DFT2G
NLV74HC02ADR2G 74HC32S14-13 74LS133 74LVC1G32Z-7 M38510/30402BDA 74LVC1G86Z-7 74LVC2G08RA3-7
NLV74HC08ADTR2G NLV74HC14ADR2G NLV74HC20ADR2G NLX2G86MUTCG 5962-8973601DA 74LVC2G02HD4-7
NLU1G00AMUTCG 74LVC2G32RA3-7 74LVC2G00HD4-7 NL17SG02P5T5G 74LVC2G00HK3-7 74LVC2G86HK3-7
NLX1G99DMUTWG NLVVHC1G00DFT2G NLVHC1G08DFT2G NLV7SZ57DFT2G NLV74VHC04DTR2G NLV27WZ86USG
NLV27WZ00USG NLU1G86CMUTCG NLU1G08CMUTCG NL17SZ32P5T5G NL17SZ00P5T5G NL17SH02P5T5G 74AUP2G00RA3-7
NLV74HC02ADTR2G NLX1G332CMUTCG NL17SG86P5T5G NL17SZ05P5T5G