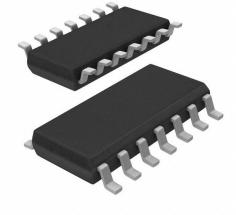


# 74HC11D/AUJ Datasheet

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DiGi Electronics Part Number Manufacturer Manufacturer Product Number Description Detailed Description

74HC11D/AUJ-DG NXP USA Inc. 74HC11D/AUJ IC GATE AND 3CH 3-INP 1450 AND Gate IC 3 Channel 14-SO

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# Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
74HC11D/AUJ	NXP USA Inc.
Series:	Product Status:
74HC	Active
Logic Type:	Number of Circuits:
AND Gate	3
Number of Inputs:	Features:
3	
Voltage - Supply:	Current - Quiescent (Max):
2V ~ 6V	2 μΑ
Current - Output High, Low:	Input Logic Level - Low:
5.2mA, 5.2mA	0.5V ~ 1.8V
Input Logic Level - High:	Max Propagation Delay @ V, Max CL:
1.5V ~ 4.2V	17ns @ 6V, 50pF
Operating Temperature:	Mounting Type:
-40°C ~ 125°C	Surface Mount
Supplier Device Package:	Package / Case:
14-50	14-SOIC (0.154", 3.90mm Width)
Base Product Number:	
74HC11	

# **Environmental & Export classification**

RoHS Status:	Moisture Sensitivity Level (MSL):
ROHS3 Compliant	1 (Unlimited)
REACH Status:	ECCN:
REACH Unaffected	EAR99
HTSUS:	
8542.39.0001	



**Product data sheet** 

## 1. General description

The 74HC11; 74HCT11 is a triple 3-input AND gate. Inputs include clamp diodes. This enables the use of current limiting resistors to interface inputs to voltages in excess of  $V_{CC}$ .

### 2. Features and benefits

- Wide supply voltage range from 2.0 to 6.0 V
- CMOS low power dissipation
- High noise immunity
- Latch-up performance exceeds 100 mA per JESD 78 Class II Level B
- Input levels:
  - For 74HC11: CMOS level
  - For 74HCT11: TTL level
- Complies with JEDEC standards:
  - JESD8C (2.7 V to 3.6 V)
  - JESD7A (2.0 V to 6.0 V)
- ESD protection:
  - HBM: ANSI/ESDA/JEDEC JS-001 class 2 exceeds 2000 V
  - CDM: ANSI/ESDA/JEDEC JS-002 class C3 exceeds 1000 V
- Specified from -40 °C to +85 °C and from -40 °C to +125 °C

### 3. Ordering information

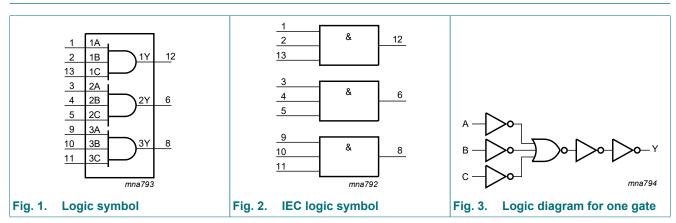
#### Table 1. Ordering information

Type number	r Package						
	Temperature range	Name	Description	Version			
<u>74HC11D</u> <u>74HCT11D</u>	-40 °C to +125 °C	SO14	plastic small outline package; 14 leads; body width 3.9 mm	<u>SOT108-1</u>			
<u>74HC11PW</u> <u>74HCT11PW</u>	-40 °C to +125 °C	TSSOP14	plastic thin shrink small outline package; 14 leads; body width 4.4 mm	<u>SOT402-1</u>			



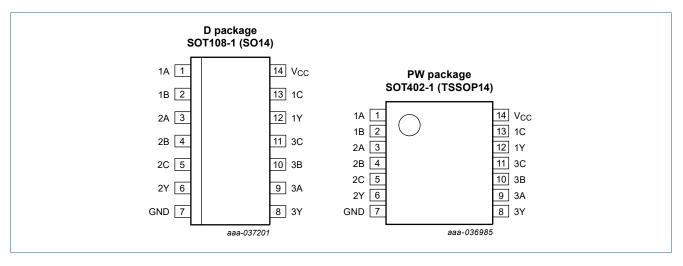
**Triple 3-input AND gate** 

# 4. Functional diagram



# 5. Pinning information

### 5.1. Pinning



### 5.2. Pin description

### Table 2. Pin description

Symbol	Pin	Description	
1A, 2A, 3A	1, 3, 9	data input	
1B, 2B, 3B	2, 4, 10	data input	
GND	7	ground (0 V)	
1C, 2C, 3C	13, 5, 11	data input	
1Y, 2Y, 3Y	12, 6, 8	data output	
V <sub>CC</sub>	14	supply voltage	

# 6. Functional description

### Table 3. Function selection

H = HIGH voltage level; L = LOW voltage level; X = don't care

Input	Output		
nA	nB	nC	nY
L	Х	Х	L
Х	L	Х	L
Х	Х	L	L
Н	Н	Н	Н

### 7. Limiting values

### Table 4. Limiting values

In accordance with the Absolute Maximum Rating System (IEC 60134). Voltages are referenced to GND (ground = 0 V).

Symbol	Parameter	Conditions	Min	Мах	Unit
V <sub>CC</sub>	supply voltage		-0.5	+7	V
I <sub>IK</sub>	input clamping current	$V_{\rm I} < -0.5 \text{ V or } V_{\rm I} > V_{\rm CC} + 0.5 \text{ V}$ [1]	-	±20	mA
I <sub>OK</sub>	output clamping current	$V_{\rm O} < -0.5 \text{ V or } V_{\rm O} > V_{\rm CC} + 0.5 \text{ V}$ [1]	-	±20	mA
lo	output current	$-0.5 V < V_O < V_{CC} + 0.5 V$	-	±25	mA
I <sub>CC</sub>	supply current		-	50	mA
I <sub>GND</sub>	ground current		-50	-	mA
T <sub>stg</sub>	storage temperature		-65	+150	°C
P <sub>tot</sub>	total power dissipation	[2]	-	500	mW

[1] The input and output voltage ratings may be exceeded if the input and output current ratings are observed.

[2] For SOT108-1 (SO14) package: P<sub>tot</sub> derates linearly with 10.1 mW/K above 100 °C.

For SOT402-1 (TSSOP14) package: P<sub>tot</sub> derates linearly with 7.3 mW/K above 81 °C.

# 8. Recommended operating conditions

### Table 5. Recommended operating conditions

Voltages are referenced to GND (ground = 0 V)

Symbol	Parameter	Conditions	74HC11		74HCT11			Unit	
			Min	Тур	Max	Min	Тур	Max	
V <sub>CC</sub>	supply voltage		2.0	5.0	6.0	4.5	5.0	5.5	V
VI	input voltage		0	-	V <sub>CC</sub>	0	-	V <sub>CC</sub>	V
Vo	output voltage		0	-	V <sub>CC</sub>	0	-	V <sub>CC</sub>	V
T <sub>amb</sub>	ambient temperature		-40	-	+125	-40	-	+125	°C
Δt/ΔV	input transition rise and fall rate	V <sub>CC</sub> = 2.0 V	-	-	625	-	-	-	ns/V
		V <sub>CC</sub> = 4.5 V	-	1.67	139	-	1.67	139	ns/V
		V <sub>CC</sub> = 6.0 V	-	-	83	-	-	-	ns/V

# 9. Static characteristics

### Table 6. Static characteristics

At recommended operating conditions; voltages are referenced to GND (ground = 0 V).

Symbol	Parameter	Conditions		25 °C		-40 °C to +85 °C		-40 °C to +125 °C		Unit
			Min	Тур	Max	Min	Max	Min	Max	1
74HC11		1				1	1			1
V <sub>IH</sub>	HIGH-level	V <sub>CC</sub> = 2.0 V	1.5	1.2	-	1.5	-	1.5	-	V
	input voltage	V <sub>CC</sub> = 4.5 V	3.15	2.4	-	3.15	-	3.15	-	V
		V <sub>CC</sub> = 6.0 V	4.2	3.2	-	4.2	-	4.2	-	V
VIL	LOW-level	V <sub>CC</sub> = 2.0 V	-	0.8	0.5	-	0.5	-	0.5	V
	input voltage	V <sub>CC</sub> = 4.5 V	-	2.1	1.35	-	1.35	-	1.35	V
		V <sub>CC</sub> = 6.0 V	-	2.8	1.8	-	1.8	-	1.8	V
V <sub>OH</sub>	HIGH-level	V <sub>I</sub> = V <sub>IH</sub> or V <sub>IL</sub>								
	output voltage	I <sub>O</sub> = -20 μA; V <sub>CC</sub> = 2.0 V	1.9	2.0	-	1.9	-	1.9	-	V
		I <sub>O</sub> = -20 μA; V <sub>CC</sub> = 4.5 V	4.4	4.5	-	4.4	-	4.4	-	V
		I <sub>O</sub> = -20 μA; V <sub>CC</sub> = 6.0 V	5.9	6.0	-	5.9	-	5.9	-	V
		I <sub>O</sub> = -4.0 mA; V <sub>CC</sub> = 4.5 V	3.98	4.32	-	3.84	-	3.7	-	V
		I <sub>O</sub> = -5.2 mA; V <sub>CC</sub> = 6.0 V	5.48	5.81	-	5.34	-	5.2	-	V
V <sub>OL</sub>	LOW-level	V <sub>I</sub> = V <sub>IH</sub> or V <sub>IL</sub>								
	output voltage	I <sub>O</sub> = 20 μA; V <sub>CC</sub> = 2.0 V	-	0	0.1	-	0.1	-	0.1	V
		I <sub>O</sub> = 20 μA; V <sub>CC</sub> = 4.5 V	-	0	0.1	-	0.1	-	0.1	V
		I <sub>O</sub> = 20 μA; V <sub>CC</sub> = 6.0 V	-	0	0.1	-	0.1	-	0.1	V
		I <sub>O</sub> = 4.0 mA; V <sub>CC</sub> = 4.5 V	-	0.15	0.26	-	0.33	-	0.4	V
		I <sub>O</sub> = 5.2 mA; V <sub>CC</sub> = 6.0 V	-	0.16	0.26	-	0.33	-	0.4	V
lı	input leakage current	$V_{I} = V_{CC}$ or GND; $V_{CC} = 6.0 V$	-	-	±0.1	-	±1	-	±1	μA
I <sub>CC</sub>	supply current	$V_{I} = V_{CC} \text{ or GND; } I_{O} = 0 \text{ A;}$ $V_{CC} = 6.0 \text{ V}$	-	-	2.0	-	20	-	40	μA
CI	input capacitance		-	3.5	-	-	-	-	-	pF
74HCT1	1	1	1	1	1	1			1	-
V <sub>IH</sub>	HIGH-level input voltage	$V_{CC}$ = 4.5 V to 5.5 V	2.0	1.6	-	2.0	-	2.0	-	V
V <sub>IL</sub>	LOW-level input voltage	$V_{CC}$ = 4.5 V to 5.5 V	-	1.2	0.8	-	0.8	-	0.8	V
V <sub>OH</sub>	HIGH-level	$V_{I} = V_{IH} \text{ or } V_{IL}; V_{CC} = 4.5 \text{ V}$								
	output voltage	I <sub>O</sub> = -20 μA	4.4	4.5	-	4.4	-	4.4	-	V
		I <sub>O</sub> = -4.0 mA	3.98	4.32	-	3.84	-	3.7	-	V
V <sub>OL</sub>	LOW-level	$V_{I} = V_{IH} \text{ or } V_{IL}; V_{CC} = 4.5 \text{ V}$								
	output voltage	I <sub>O</sub> = 20 μA	-	0	0.1	-	0.1	-	0.1	V
I	input leakage current	$V_{I} = V_{CC}$ or GND; $V_{CC} = 5.5$ V	-	-	±0.1	-	±1	-	±1	μA
I <sub>CC</sub>	supply current	$V_I = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 5.5$ V	-	-	2.0	-	20	-	40	μA

74HC\_HCT11

### **Nexperia**

# 74HC11; 74HCT11

### **Triple 3-input AND gate**

Symbol	Parameter	Conditions	25 °C		-40 °C to +85 °C		-40 °C to +125 °C		Unit	
			Min	Тур	Max	Min	Max	Min	Мах	
-00	additional supply current	per input pin; V <sub>I</sub> = V <sub>CC</sub> - 2.1 V; I <sub>O</sub> = 0 A; other inputs at V <sub>CC</sub> or GND; V <sub>CC</sub> = 4.5 V to 5.5 V	-	100	360	-	450	-	490	μA
CI	input capacitance		-	3.5	-	-	-	-	-	pF

### 10. Dynamic characteristics

### Table 7. Dynamic characteristics

GND = 0 V;  $C_L = 50 pF$ ; for test circuit see Fig. 5.

Symbol Parameter		Conditions		25 °C		-40 °C to	o +85 °C	-40 °C to	+125 °C	Unit
			Min	Тур	Мах	Min	Max	Min	Max	1
74HC11										
t <sub>pd</sub>	propagation	nA, nB to nY; see <u>Fig. 4</u> [1]								
	delay	V <sub>CC</sub> = 2.0 V	-	32	100	-	125	-	150	ns
		V <sub>CC</sub> = 4.5 V	-	12	20	-	25	-	30	ns
		V <sub>CC</sub> = 5.0 V; C <sub>L</sub> = 15 pF	-	9	-	-	-	-	-	ns
		V <sub>CC</sub> = 6.0 V	-	10	17	-	21	-	26	ns
t <sub>t</sub>	transition time	see <u>Fig. 4</u> [2]								
		V <sub>CC</sub> = 2.0 V	-	19	75	-	95	-	110	ns
		V <sub>CC</sub> = 4.5 V	-	7	15	-	19	-	22	ns
		V <sub>CC</sub> = 6.0 V	-	6	13	-	16	-	19	ns
C <sub>PD</sub>	power dissipation capacitance	per package; [3] $V_I = GND$ to $V_{CC}$	-	18	-	-	-	-	-	pF
74HCT11	1									
t <sub>pd</sub>	propagation	nA, nB to nY; see Fig. 4 [1]								
	delay	V <sub>CC</sub> = 4.5 V	-	16	24	-	30	-	36	ns
		V <sub>CC</sub> = 5.0 V; C <sub>L</sub> = 15 pF	-	11	-	-	-	-	-	ns
t <sub>t</sub>	transition time	V <sub>CC</sub> = 4.5 V; see <u>Fig. 4</u> [2]	-	7	15	-	19	-	22	ns
C <sub>PD</sub>	power dissipation capacitance	per package; [3] V <sub>I</sub> = GND to V <sub>CC</sub> - 1.5 V	-	20	-	-	-	-	-	pF

[1]  $t_{pd}$  is the same as  $t_{PHL}$  and  $t_{PLH}$ . [2]  $t_t$  is the same as  $t_{THL}$  and  $t_{TLH}$ . [3]  $C_{PD}$  is used to determine the dynamic power dissipation (P<sub>D</sub> in µW):  $P_D = C_{PD} \times V_{CC}^2 \times f_i \times N + \Sigma(C_L \times V_{CC}^2 \times f_o)$  where:

 $f_i$  = input frequency in MHz;

f<sub>o</sub> = output frequency in MHz;

C<sub>L</sub> = output load capacitance in pF;

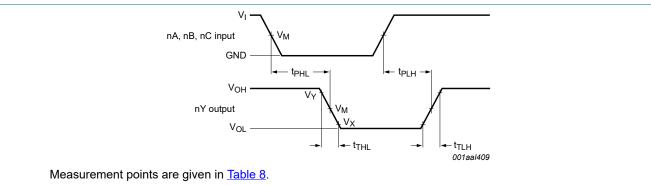
V<sub>CC</sub> = supply voltage in V;

N = number of inputs switching;

 $\Sigma(C_L \times V_{CC}^2 \times f_o)$  = sum of outputs.

### **Triple 3-input AND gate**

### 10.1. Waveforms and test circuit

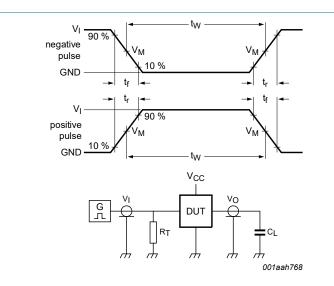


 $V_{\text{OL}}$  and  $V_{\text{OH}}$  are typical voltage output levels that occur with the output load.

#### Fig. 4. Input to output propagation delays

### Table 8. Measurement points

Туре	Input	Output				
	V <sub>M</sub>	V <sub>M</sub>	V <sub>X</sub>	V <sub>Y</sub>		
74HC11	0.5V <sub>CC</sub>	0.5V <sub>CC</sub>	0.1V <sub>CC</sub>	0.9V <sub>CC</sub>		
74HCT11	1.3 V	1.3 V	0.1V <sub>CC</sub>	0.9V <sub>CC</sub>		



Test data is given in Table 9.

Definitions test circuit:

 $R_T$  = termination resistance should be equal to output impedance  $Z_o$  of the pulse generator;

C<sub>L</sub> = load capacitance including jig and probe capacitance.

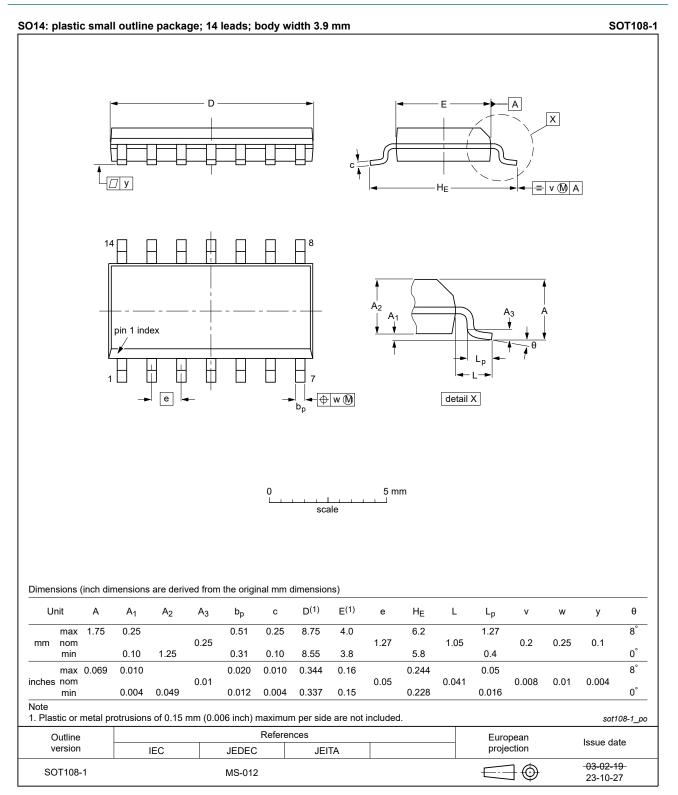
### Fig. 5. Test circuit for measuring switching times

Table 9. Test data							
Туре	Input		Load	Test			
	VI	t <sub>r</sub> , t <sub>f</sub>	CL				
74HC11	V <sub>CC</sub>	6.0 ns	15 pF, 50 pF	t <sub>PLH</sub> , t <sub>PHL</sub>			
74HCT11	3.0 V	6.0 ns	15 pF, 50 pF	t <sub>PLH</sub> , t <sub>PHL</sub>			

74HC\_HCT11

**Triple 3-input AND gate** 

## 11. Package outline



### Fig. 6. Package outline SOT108-1 (SO14)

### Nexperia

# 74HC11; 74HCT11

### **Triple 3-input AND gate**

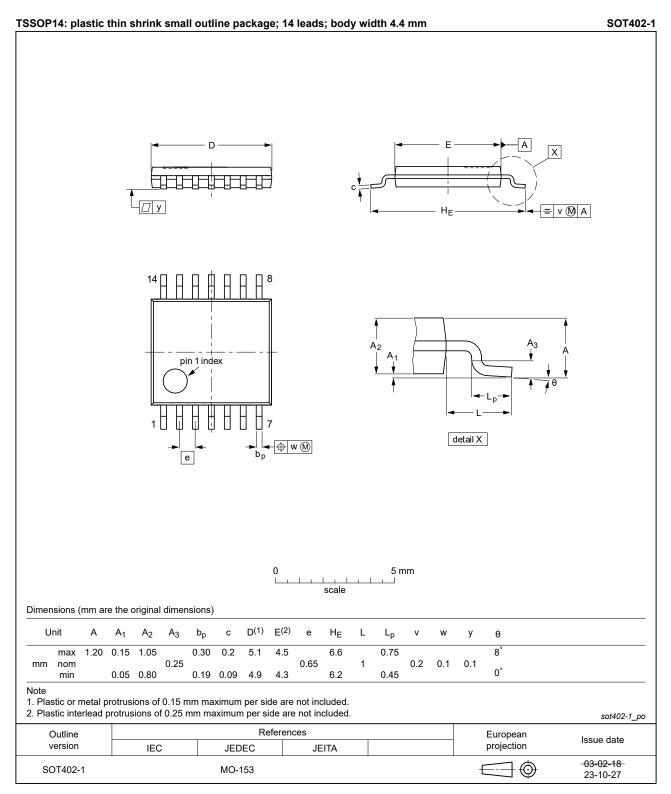


Fig. 7. Package outline SOT402-1 (TSSOP14)

# 12. Abbreviations

Acronym	Description
CDM	Charged Device Model
CMOS	Complementary Metal-Oxide Semiconductor
DUT	Device Under Test
ESD	ElectroStatic Discharge
НВМ	Human Body Model
TTL	Transistor-Transistor Logic

# 13. Revision history

Table 11. Revision history					
Document ID	Release date	Data sheet status	Change notice	Supersedes	
74HC_HCT11 v.9	20240221	Product data sheet	-	74HC_HCT11 v.8	
Modifications:	<ul> <li><u>Section 2</u>: ESD specification updated according to the latest JEDEC standard.</li> <li><u>Fig. 6</u>, <u>Fig. 7</u>: Aligned SO and TSSOP package outline drawings to JEDEC MS-012 and MO-153</li> </ul>				
74HC_HCT11 v.8	20210811	Product data sheet	-	74HC_HCT11 v.7	
Modifications:	<ul> <li><u>Section 2</u> updated.</li> <li>Type number 74HC11DB (SOT337-1/SSOP14) removed.</li> </ul>				
74HC_HCT11 v.7	20210108	Product data sheet	-	74HC_HCT11 v.6	
Modifications:	guidelines of Legal texts Type numb	of this data sheet has been of Nexperia. have been adapted to the er 74HCT11DB (SOT337- Derating values for P <sub>tot</sub> tot	e new company nar 1/SSOP14) remov	ne where appropriate. ed.	
74HC_HCT11 v.6	20151119	Product data sheet	-	74HC_HCT11 v.5	
Modifications:	Type numbers 74HC11N and 74HCT11N (SOT27-1) removed.				
74HC_HCT11 v.5	20111216	Product data sheet	-	74HC_HCT11 v.4	
Modifications:	Legal pages updated.				
74HC_HCT11 v.4	20100325	Product data sheet	-	74HC_HCT11 v.3	
74HC_HCT11 v.3	20100209	Product data sheet	-	74HC_HCT11_CNV v.2	
74HC_HCT11_CNV v.2	19970827	Product specification	-	-	

#### **Triple 3-input AND gate**

### 14. Legal information

#### Data sheet status

Document status [1][2]	Product status [3]	Definition
Objective [short] data sheet	Development	This document contains data from the objective specification for product development.
Preliminary [short] data sheet	Qualification	This document contains data from the preliminary specification.
Product [short] data sheet	Production	This document contains the product specification.

 Please consult the most recently issued document before initiating or completing a design.

[2] The term 'short data sheet' is explained in section "Definitions".

[3] The product status of device(s) described in this document may have changed since this document was published and may differ in case of multiple devices. The latest product status information is available on the internet at <u>https://www.nexperia.com</u>.

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**Product data sheet** 

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