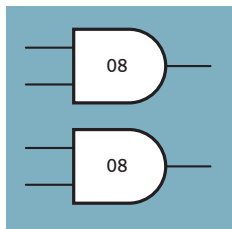


Save more space with combination logic

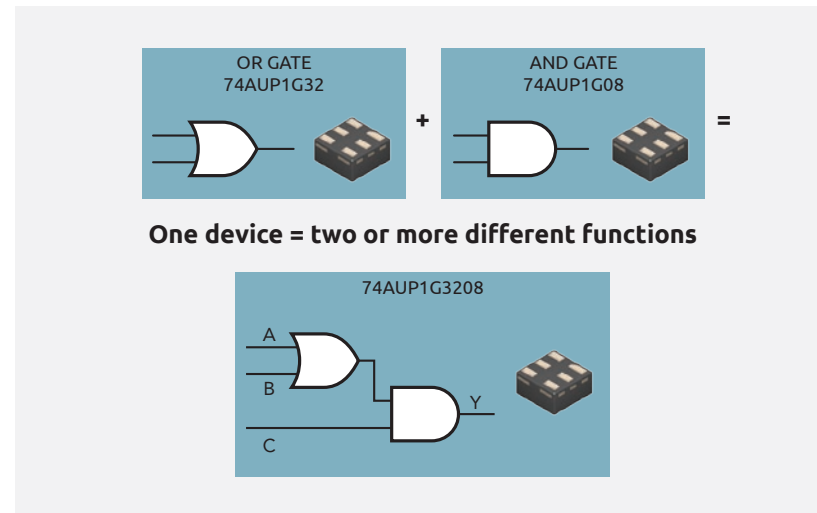
Discover Combination Logic

Historically we put two or more of the same functions in one package...



74AUP2G08

Why not combine different functions into one package?



One device = two or more different functions



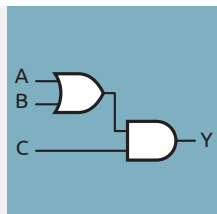
Benefits

- › Up to 50% board space savings
- › Up to 50% reduction in both static and dynamic power
- › Up to 30% increased performance by reducing propagation delay (for single gate devices)
- › Improved reliability through reduced pin count

Types of combination logic

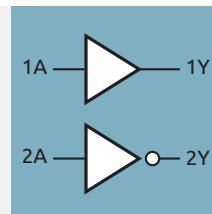
Single gate

Two different functions internally cascaded in one package



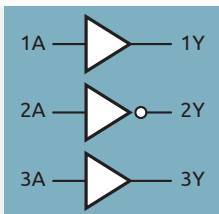
Dual gate

Two different functions in one package



Triple gate

Combination of different functions in one package



Save more space with combination logic

- › Functions and families currently available in Combination Logic are shown below
- › Additional functions and families in Combination Logic can be made upon request
- › All types below are specified for -40 to +125°C ambient temperature range
- › Dual Configurable Logic can also be used to implement custom configurations

For product datasheets, additional information, and the latest list of released functions, please visit:

<https://www.nexperia.com/products/logic/gates/combination-gates/>

For more information, please contact your local Nexperia sales representative.

Type number	Description	V _{cc} (V)	Output drive capability (mA)	t _{pd} (ns)	f _{max} (MHz)	Packages Suffix							
						SOT1202 GS	SOT886 GM	SOT363 GW	SOT765 DC	SOT833 GT	SOT1255 GX	SOT1203 GS	SOT1081 GF
74AUP1G0832	Single 3-input AND-OR gate	1.1 to 3.6	±1.9	6.7	70	•	•	•					
74AUP1G3208	Single 3-input OR-AND gate	1.1 to 3.6	±1.9	7.4	70	•	•	•			•		
74AUP1G885	Dual function gate	1.1 to 3.6	±1.9	7.6	70				•	•		•	
74AUP1Z04	Crystal driver with enable and internal resistor	1.1 to 3.6	±1.9	5.6	70	•	•	•					
74AUP1Z125	Crystal driver with enable and internal resistor (3-state)	1.1 to 3.6	±1.9	4.7	70	•	•	•					
74AUP2G0604	Inverter with open drain and inverter	1.1 to 3.6	±1.9	4.0	70	•	•	•					
74AUP2G3404	Buffer and inverter	1.1 to 3.6	±1.9	4.0	70	•	•	•					
74AUP2G3407	Buffer and buffer with open drain	1.1 to 3.6	±1.9	4.1	70	•	•	•					
74AUP2T1326	Dual supply buffer/line driver; 3-state	1.1 to 3.6	±1.9	3.8	70								•
74AUP3G0434	Dual inverter and single buffer	1.1 to 3.6	±1.9	4.0	70				•	•		•	
74AUP3G3404	Dual buffer and single inverter	1.1 to 3.6	±1.9	4.0	70				•	•		•	
74LVC1GX04	Crystal driver	1.65 to 5.5	±24	2.8	150			•					