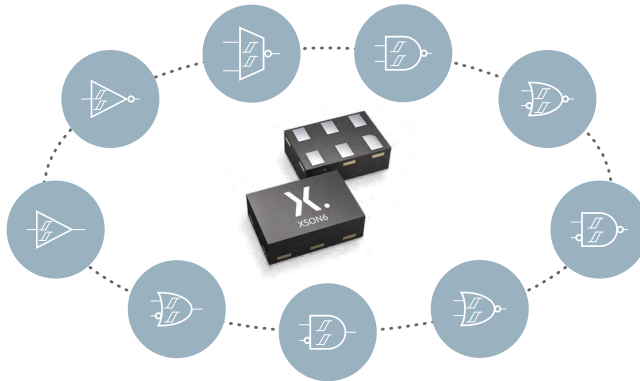
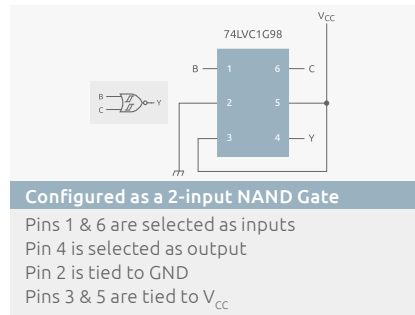
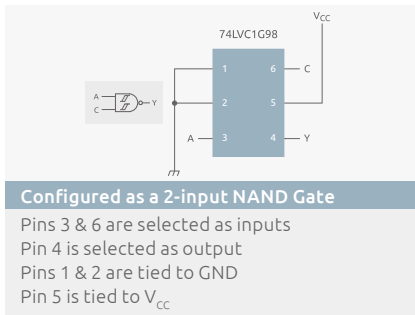


# Single configurable logic

Up to 9 logic functions in one device - available in our LVC, AUP and AXP families



**How configurable logic operates** - Example of a 74LVC1G98 configured as a NAND or NOR gate



Single configurable logic is a logic solution that can be configured to provide one of several different logic functions in a single package. The pin configuration determines which logic function the device performs.

## Features:















- › Schmitt-trigger inputs for clean signal
- › Low propagation delay for enhanced speed
- › Choice of low-power AUP, AXP & LVC technologies
- › Integrated level-shifter available on LVC

## Benefits:





- › Lower device count with Boolean functions
- › Significant PCB area & power savings possibilities
- › Reduced qualification effort and logistics
- › Highly flexible and efficient assembly
- › Increased manufacturing efficiency
- › Simplified inventory control by reducing BOM

# Configurable logic

## Single configurable logic types list

Part number														
74LVC1G57 74AUP1G57* 74AXP1G57	•			•		•	•	•	•	•		•		
74LVC1G58 74AUP1G58* 74AXP1G58		•	•		•		•	•		•	•			
74LVC1G97 74AUP1G97* 74AXP1G97	•	•					•	•	•	•	•	•	•	
74LVC1G98 74AUP1G98* 74AXP1G98			•	•			•	•	•	•	•	•		•

\* Available with an integrated level shifter. Also available: 74LVC1G99 Ultra-configurable multiple function gate (3-state) in 8-pin packages.

Package suffix & name	GX	GS	GM	GW
	X2SON6	XSON6	XSON6	TSSOP6
				
Package	SOT1255	SOT1202	SOT886	SOT363
W x L x H (mm)	1.0 x 0.8 x 0.35	1.0 x 1.0 x 0.35	1.45 x 1.0 x 0.5	2.1 x 1.25 x 0.95
Pitch (mm)	≥0.4	0.35	0.50	0.65

For more information about Configurable logic, visit:

[nexperia.com/products/logic/control-logic/gates/configurable-gates/](https://nexperia.com/products/logic/control-logic/gates/configurable-gates/)

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