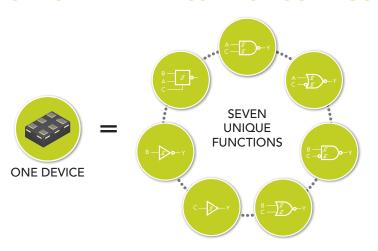
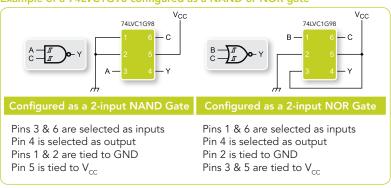
DO MORE WITH LESS—PCB CONFIGURABLE LOGIC





Example of a 74LVC1G98 configured as a NAND or NOR gate



WHAT IS CONFIGURABLE LOGIC?

PCB Configurable Logic places seven logic functions into a single package.

HOW?

Each function (i.e. inverter, buffer, AND gate, etc.) is constructed based on how the input, $V_{\rm CC}$, and GND pins are configured on the PCB.

WHAT ARE THE BENEFITS?

Reduces cost through...

- ▶ Increased manufacturing efficiency
- During manufacturing, it requires only one tape and reel position in the pick and place machine not seven
- ▶ Simplified inventory control
 - Replaces seven individual components on the BOM
- ▶ Reduces qualification effort
 - Qualify only one device instead of seven

KEY FEATURES

- ▶ Low power consumption
- ▶ Integrated level shifter (available in the AUP family)
- ▶ Low propagation delay



DO MORE WITH LESS—PCB CONFIGURABLE LOGIC

Available Families - PCB Configurable Logic is available in the LVC, AUP, and AXP families

Part number	Available functions						
74LVC1G57 74AUP1G57* 74AXP1G57	В	В -о <u>п</u> о- Y	A	A	B	В — У	A — # • Y
74LVC1G58 74AUP1G58* 74AXP1G58	В	В -о <u>Л</u> Y	A	А <u>Л</u>	В <u>Л</u>	В — У	A — (7)
74LVC1G97 74AUP1G97* 74AXP1G97	A J	В	A	B II Y	B T	В — У	A — FO-Y
74LVC1G98 74AUP1G98* 74AXP1G98	A	В	A	B	B J	В — У	A — FO-Y

^{*} Available with an integrated level shifter.

Package suffix	GX	GS	GM	GW
	6-pin (X2SON6)	6-pin (XSON6)	6-pin (XSON6)	6-pin (TSSOP)
Package	SOT1255	SOT1202	SOT886	SOT363
W x L x H, min pin spacing [pitch] (in mm)	1.0 x 0.8 x 0.35, 0.4	1.0 x 1.0 x 0.35, 0.35	1.0 x 1.45 x 0.5, 0.5	2.1 x 2.0 x 1.0, 0.65

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

www.nxp.com/products/logic/gates/configurable_multiple_function_gates/

