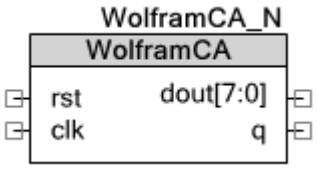
Wolfram Cellular Automata Generator

JLS1_WolframCA v1.0 **JLS1**

Features



- Generates the Wolfram Cellular Automata Sequence
- Parameterized selection of Wolfram rule
- Synchronous reset

General Description

This component generates a byte wide Wolfram sequence. The rule used for the generation is a parameter on the component. Based on the rule, the sequence is generated with each clock on the dout terminal. The q output is high each time the output value on dout matches the rule value.

Pin Description

Pin	Type	Function
rst	Input	Synchronous reset
clk	Input	Clock
dout[7:0]	Output	Sequence output
q	Output	Sequence state match to rule

Support

PSoC Creator Community Components are developed and supported by the Cypress Developer Community. Go to www.cypress.com/CommunityComponents to discuss this and other Community Components.