

## Product Overview

### MC74ACT161: Synchronous Presetable Binary Counter

For complete documentation, see the data sheet.

The MC74AC161/74ACT161 and MC74AC163/74ACT163 are high-speed synchronous modulo-16 binary counters. They are synchronously presetable for application in programmable dividers and have two types of Count Enable inputs plus a Terminal Count output for versatility in forming synchronous multistage counters. The MC74AC161/74ACT161 has an asynchronous Master Reset input that overrides all other inputs and forces the outputs LOW. The MC74AC163/74ACT163 has a Synchronous Reset input that overrides counting and parallel loading and allows the outputs to be simultaneously reset on the rising edge of the clock.

### Features

- Synchronous Counting and Loading
- High-Speed Synchronous Expansion
- Typical Count Rate of 125 MHz
- Outputs Source/Sink 24 mA
- ACT161 and ACT163 Have TTL Compatible Inputs
- These devices are available in Pb-free package(s). Specifications herein apply to both standard and Pb-free devices. Please see our website at [www.onsemi.com](http://www.onsemi.com) for specific Pb-free orderable part numbers, or contact your local ON Semiconductor sales office or representative.

### Part Electrical Specifications

Product	Compliance	Status	Type	V <sub>CC</sub> Min (V)	V <sub>CC</sub> Max (V)	t <sub>pd</sub> Max (ns)	P <sub>D</sub> Max (W)	I <sub>O</sub> Max (mA)	Package Type
MC74ACT161DG	Pb-free	Active	Counter	4.5	5.5	10.5	0.35	24	SOIC-16
	Halide free								
MC74ACT161DR2G	Pb-free	Active	Counter	4.5	5.5	10.5	0.35	24	SOIC-16
	Halide free								

For more information please contact your local sales support at [www.onsemi.com](http://www.onsemi.com).

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