

## Product Overview

### 74AC14: Hex Inverter with Schmitt Trigger Input

For complete documentation, see the data sheet.

The 74AC14 and 74ACT14 contain six inverter gates each with a Schmitt trigger input. They are capable of transforming slowly changing input signals into sharply defined, jitter-free output signals. In addition, they have a greater noise margin than conventional inverters. The 74AC14 and 74ACT14 have hysteresis between the positive-going and negative-going input thresholds (typically 1.0V), which is determined internally by transistor ratios and is essentially insensitive to temperature and supply voltage variations.

### Features

- ICC reduced by 50%
- Outputs source/sink 24 mA
- 74ACT14 has TTL-compatible inputs

### Applications

- This product is general usage and suitable for many different applications.

| Part Electrical Specifications |                   |  |        |          |          |                         |                         |                          |                         |              |
|--------------------------------|-------------------|--|--------|----------|----------|-------------------------|-------------------------|--------------------------|-------------------------|--------------|
| Product                        | Pricing (\$/Unit) | Compliance                                   | Status | Type     | Channels | V <sub>CC</sub> Min (V) | V <sub>CC</sub> Max (V) | t <sub>pd</sub> Max (ns) | I <sub>O</sub> Max (mA) | Package Type |
| 74AC14MTC                      | 0.194             | Pb-free<br>Halide free<br>non AEC-Q and PPAP | Active | Inverter | 6        | 2                       | 6                       | 7                        | 24                      | TSSOP-14 WB  |
| 74AC14MTCX                     | 0.1331            | Pb-free<br>Halide free<br>non AEC-Q and PPAP | Active | Inverter | 6        | 2                       | 6                       | 7                        | 24                      | TSSOP-14 WB  |
| 74AC14SC                       | 0.2192            | Pb-free<br>Halide free<br>non AEC-Q and PPAP | Active | Inverter | 6        | 2                       | 6                       | 7                        | 24                      | SOIC-14      |
| 74AC14SCX                      | 0.2192            | Pb-free<br>Halide free<br>non AEC-Q and PPAP | Active | Inverter | 6        | 2                       | 6                       | 7                        | 24                      | SOIC-14      |

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