

# WI02: Instant Upwards Comparator Wire

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## Features

- Constant time on/off for all signal strengths  $\leq 15$
- 8gt throughput
- Can input from multiple places

## Applications

- Vertical signal transport.

## General Description

Transports signals upwards in constant time. Horizontal area of  $10 \times 3$ . Can input from multiple places as shown in schem.

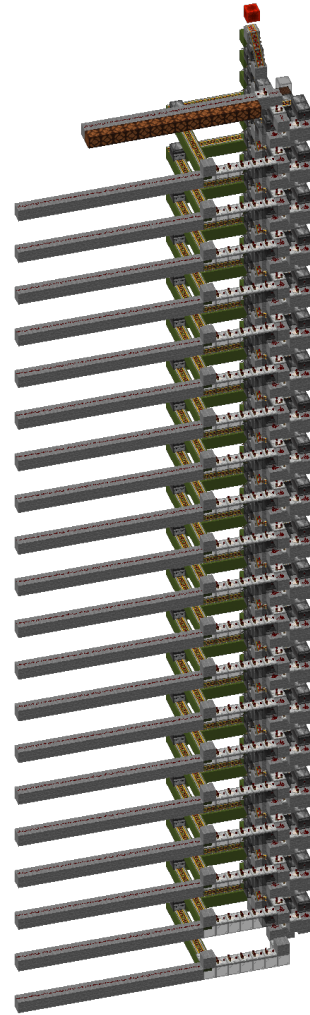


Figure 1: Instant Upwards Comparator Wire

## Device Specifications

**Table 1: Device Specifications**

| Parameter  | Min.         | Typ.   | Max. | Unit   | Conditions                                |
|------------|--------------|--------|------|--------|---|
| Throughput | 8            | -      | -    | gt     | Normal Usage                              |
| MC Version | 1.16         | 1.17.1 | -    | MCV    | Latest version at time of writing: 1.19.3 |
| Dimensions | 10 x 86 x 24 |        |      | Blocks |   |

## Testing Data

**Table 2: Executed Tests**

| Test            | Result  |
|-----------------|---|
| Throughput test | Device was able to function with 8gt clocked input. |

## Download Information

**Table 3: Download Information**

| Identifier | MC     | File   | Description          |
|------------|--------|--|----------------------|
| WI02       | 1.17.1 | <a href="#">WI02_Instant_Upwards_Comparator_Wire.litematic</a> | Schematic of device. |