

# EC01: Hopperspeed Encoder V2

By: Andrews54757

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## Features

- Hopperspeed (9000 items/hr) encoding.
- Adjustable and expandable to work with any base.
- Requires 4 items per item type per chest.
- Uses 30 carts and floating rail.

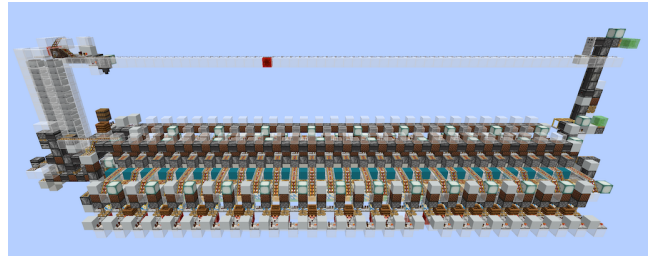


Figure 1: Hopperspeed Item Encoder

## Applications

- Encoding items

## General Description

The EC01 encoder uses multiple hopper carts to allow for hopperspeed item to code encoding. The design shown is a 54 double-chest design which allows for up to 1000 item types with a decimal encoding scheme.

## Device Specifications

**Table 1: Inputs**

Name	Range	Description
Box input	Box Item	Single-type box with items for encoding.

**Table 2: Outputs**

Name	Range	Description
Box output	Box Item	Outputs the inputted box timed with the code.
Code signal	Code	Outputs a redstone signal corresponding to the mapped item code.

**Table 3: Device Specifications**

Parameter	Min.	Typ.	Max.	Unit	Conditions
Throughput	8	-	-	gt	Normal Usage
Active Lag	+2	+2.5	+3	ms	At Hopperspeed. Ryzen 5 3600, 2GB RAM. MC 1.18.1 with Lithium.
MC Version	1.16	1.16.5	-	MCV	Latest version at time of writing: 1.19.3
Dimensions	70 x 19 x 19			Blocks	

## Testing Data

**Table 4: Executed Tests**

Test	Result
Box encoding test	Device was able to encode with box input
Throughput test	Device was able to encode at 8gt throughput with randomized input.

## Download Information

**Table 5: Download Information**

Identifier	MC	File	Description
EC01	1.16.5	<a href="#">EC01_Hopperspeed_Encoder_V2-r1.zip</a>	World download of encoder