

IM03: Compact Disk Drive Temp Storage

By: Obi, Crain, PallaPalla, xXOpticNerveXx, JayRoi

Tags: item-memory, disk-drive, temp-storage

Features

- Stores 32 boxes in each double chest for high density
- 8 bit address, up to 256 boxes
- Built in isBox check for easy pair detection
- Safety feature checks if chest is reset properly
- Safety feature checks if placeholder items are missing

Applications

- Dynamic sorting partial box merging loop

General Description

The IM03 Compact Disk Drive Temp Storage is a device that stores boxes in a temporary storage system. The device is designed to be used in a dynamic sorting system to merge partial boxes. To use, set an 8 bit address and input a box. The drive will iterate through the boxes in the right chest to find a box already stored in the system. If a box is found, both boxes are outputted. If no box is found, the input box is stored in the drive for later pairing. The drive can store up to 256 boxes (one per address) in 8 double chests. [Youtube video](#)

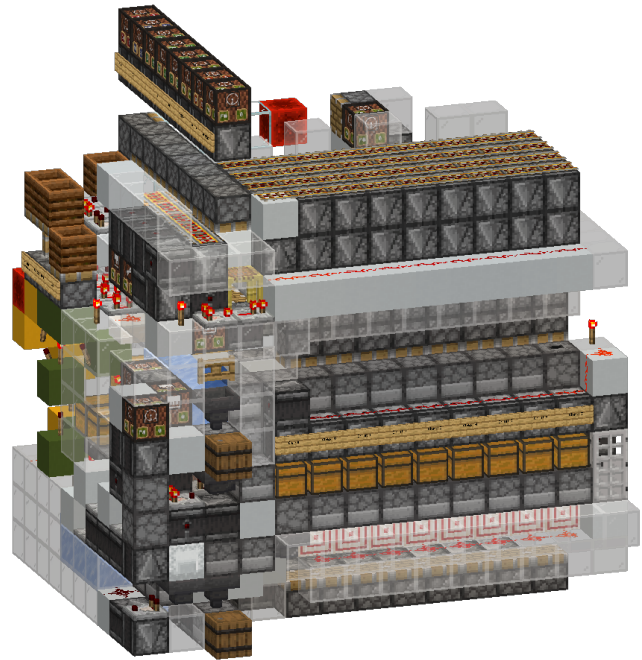


Figure 1: Compact Disk Drive Temp Storage

Device Specifications

Table 1: Inputs

Name	Range	Description
Address Bits 0-7	0-1	Binary address of box
Box input	box	Box input. Usually a partial box from a splitter.
Manual shutoff	0-1	Manually shuts off device.

Table 2: Outputs

Name	Range	Description
Box outputs 1-2	box	Box output. Only outputs boxes with the other output simultaneously when a match is found.
isResetProper	0-1	Indicates disk drive is reset properly for next use.
hasCodeItems	0-1	Indicates disk drive has enough placeholder items for next use.
hasBox	0-1	Indicates disk drive has input box

Table 3: Device Specifications

Parameter	Min.	Typ.	Max.	Unit	Conditions
Throughput	281	-	790	gt	Normal Usage
Minimum Latency	143	-	391	gt	From input to pair output
MC Version	1.16	1.17.1	-	MCV	Latest version at time of writing: 1.20.4
Dimensions	14 x 13 x 10			Blocks	

Testing Data

Table 4: Executed Tests

Test	Result
Pair generation test	Device was able to produce pairs corresponding to the address.

Download Information

Table 5: Download Information

Identifier	MC	File	Description
IM03	1.17.1	IM03-Compact_Disk_Drive_Temp_Storage.zip	World download of device.
IM03	1.17.1	IM03-Compact_Disk_Drive_Temp_Storage.litematic	Schematic of device. Inventories included.