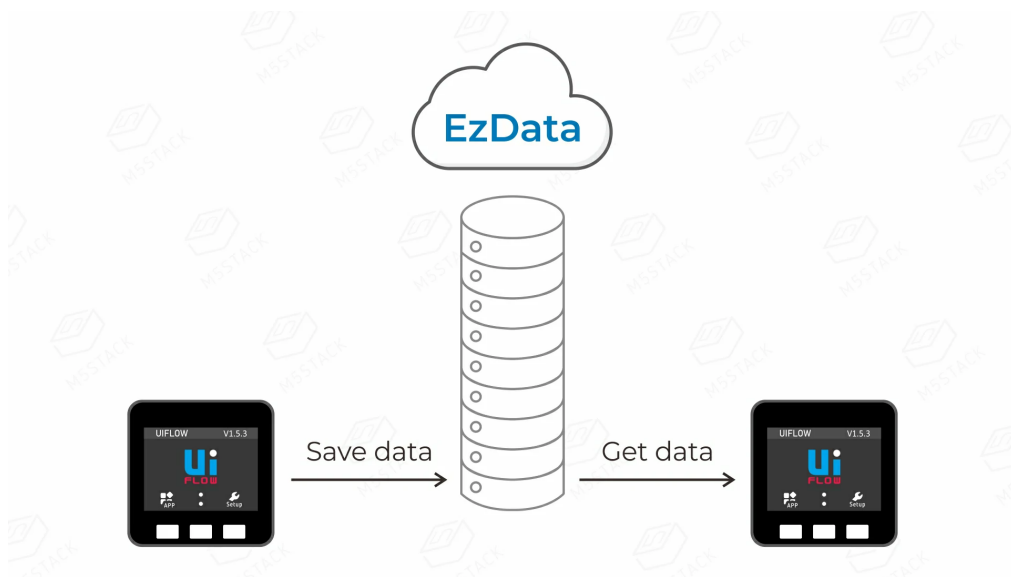


EzData

EzData is an IoT cloud data storage service provided by M5Stack, allowing different devices to insert or retrieve data into a storage queue using a unique token, enabling data sharing across devices.



Example

```
Setup
Loop
  Save value "Hello EzData" to topic "my_topic" with token "6ijRMmiFRdO2tVfFibNpy6PN1sRvFmsy"
  print Get value from topic "my_topic" with token "6ijRMmiFRdO2tVfFibNpy6PN1sRvFmsy"
  count with i from 0 to 10 by 1
  do
    Save value i to list "my_list" with token "6ijRMmiFRdO2tVfFibNpy6PN1sRvFmsy"
  end do
  print Get value from list "my_list"
    offset 0
    count 50
    with token "6ijRMmiFRdO2tVfFibNpy6PN1sRvFmsy"
  end print
  Remove topic "my_topic" with token "6ijRMmiFRdO2tVfFibNpy6PN1sRvFmsy"
  print Get current ISODatetime
```

```

from m5stack import *
from m5ui import *
from uiflow import *
from flow import ezdata
import wifiCfg

i = None

wifiCfg.autoConnect(lcdShow=False)

while True:
    ezdata.setData('6ijRMmiFRdO2tVfFibNpy6PN1sRvFmsy', 'my_topic', 'Hello EzData')
    print(ezdata.getData('6ijRMmiFRdO2tVfFibNpy6PN1sRvFmsy', 'my_topic'))
    for i in range(11):
        ezdata.addToList('6ijRMmiFRdO2tVfFibNpy6PN1sRvFmsy', 'my_list', i)
        print(ezdata.getData('6ijRMmiFRdO2tVfFibNpy6PN1sRvFmsy', 'my_list', 0, 50))
    ezdata.removeData('6ijRMmiFRdO2tVfFibNpy6PN1sRvFmsy', 'my_topic')
    print(ezdata.getCurrentISODateTime())
    wait_ms(2)

```

API

Save value  to topic  with token  "6ijRMmiFRdO2tVfFibNpy6PN1sRvFmsy" 

```
ezdata.setData('6ijRMmiFRdO2tVfFibNpy6PN1sRvFmsy', 'my_topic', 'Hello EzData')
```

- Save Data to the Head of a Specified Topic Queue

Get value from topic  with token  "6ijRMmiFRdO2tVfFibNpy6PN1sRvFmsy" 

```
print(ezdata.getData('6ijRMmiFRdO2tVfFibNpy6PN1sRvFmsy', 'my_topic'))
```

- Retrieve a Data Item from the Head of a Specified Topic Queue

Save value  to list  with token  "6ijRMmiFRdO2tVfFibNpy6PN1sRvFmsy" 

```
ezdata.addToList('6ijRMmiFRdO2tVfFibNpy6PN1sRvFmsy', 'my_list', i)
```

- Save Data to the Head of a Specified Data List

Get value from list

offset 0

count 50

with token "6ijRMmiFRdO2tVfFIbNpy6PN1sRvFmsy" 

```
print(ezdata.getData('6ijRMmiFRdO2tVfFIbNpy6PN1sRvFmsy', 'my_list', 0, 50))
```

- Retrieve a Set of Data from a Specified Data List, with the advantage of list storage being able to specify an offset from the head of the list and retrieve multiple data items at once. Parameters include:
- list: Name of the list (string)
- offset: Offset from the head of the list
- count: Number of data items to retrieve

Remove topic " " with token "6ijRMmiFRdO2tVfFIbNpy6PN1sRvFmsy" 

```
ezdata.removeData('6ijRMmiFRdO2tVfFIbNpy6PN1sRvFmsy', 'my_topic')
```

- Delete a Topic or List and Clear Queue Data

Get current ISODateTime

```
print(ezdata.getCurrentISODateTime())
```

- Get Current ISO Date and Time

ID: Save value

to topic " "

with token "6ijRMmiFRdO2tVfFIbNpy6PN1sRvFmsy" 

```
ezdata.setDataAsync(ezdata_set_NdmNNcb, ezdata_set_fail_NdmNNcb, '6ijRMmiFRdO2tVfFIbNpy6PN1sRvFmsy', 'm
```

- Asynchronous Operation: Save data to the head of a specified topic queue

ID: Save value

to list " "

with token "6ijRMmiFRdO2tVfFIbNpy6PN1sRvFmsy" 

```
ezdata.addToListAsync(ezdata_set_iQCwDcb, ezdata_set_fail_iQCwDcb, '6ijRMmiFRdO2tVfFIbNpy6PN1sRvFmsy',
```

- Asynchronous Operation: Save data to the head of a specified data list

ID: Get value from topic “ ”
with token “ 6ijRMmiFRdO2tVfFIbNpy6PN1sRvFmsy ”

```
ezdata.getDataAsync(ezdata_get_iRBYXcb, ezdata_get_fail_iRBYXcb, '6ijRMmiFRdO2tVfFIbNpy6PN1sRvFmsy', 'm
```

- Asynchronous Operation: Retrieve a data item from the head of a specified topic queue

ID: Get value from list “ ”
offset 0
count 50
with token “ 6ijRMmiFRdO2tVfFIbNpy6PN1sRvFmsy ”

```
ezdata.getDataAsync(ezdata_get_rfWJMcb, ezdata_get_fail_rfWJMcb, '6ijRMmiFRdO2tVfFIbNpy6PN1sRvFmsy', 'm
```

- Asynchronous Operation
- Retrieve a Set of Data from a Specified Data List, with the advantage of list storage being able to specify an offset from the head of the list and retrieve multiple data items at once. Parameters include:
- list: Name of the list (string)
- offset: Offset from the head of the list
- count: Number of data items to retrieve

ID: Remove topic “ ”
with token “ 6ijRMmiFRdO2tVfFIbNpy6PN1sRvFmsy ”

```
ezdata.removeDataAsync(ezdata_remove_KcMAbcb, ezdata_remove_fail_KcMAbcb, '6ijRMmiFRdO2tVfFIbNpy6PN1sRv
```

- Asynchronous Operation: Delete a topic or list and clear queue data

ID: Get current ISODateTime (Async)

```
ezdata.getCurrentISODateTimeAsync(ezdata_get_ESdHGcb, ezdata_get_fail_ESdHGcb)
```

- Asynchronous Operation: Get current ISO date and time

Notes:

1. All operations above rely on a unique token, which remains fixed within the same browser environment. Please copy the token before use.
2. If no data operations are performed within six months, the data queue corresponding to that token will be emptied.
3. Data is sorted in descending order based on insertion time (with the last inserted data at the head of the list), and data accumulates over time.