

```
In [44]: print(data)
[b'\r\n', b'^LRJOIN:923.4,1\r\n', b'\r\n', b'^LRJOIN:
923.4,0\r\n']
```

```
In [45]: appeui = Command("APPEUI", GET)
```

```
In [46]: lora.send_raw_command(eui)
-----FOUND IN BUFFER-----
[b'\r\n', b'^LRJOIN:923.2,2\r\n']
-----
```

```
In [47]: time.sleep(0.1)
```

```
In [48]: print("coming data: ", lora.is_available)
coming data: 33
```

```
In [49]: appeui = Command("APPEUI", GET)
```

```
In [50]: lora.send_raw_command(appeui)
-----FOUND IN BUFFER-----
[b'\r\n', b'+APPEUI:>00000000000000001\r\n', b'OK\r\n']
-----
```

```
In [51]: print(appeui.serialize())
AT+APPEUI=?
```

```
In [52]: appeui = Command("APPEUI", GET)
```

```
In [53]: print(appeui.serialize())
AT+APPEUI=?
```

```
In [54]: lora.send_raw_command(appeui)
-----FOUND IN BUFFER-----
[b'\r\n', b'+APPEUI:>00000000000000001\r\n', b'OK\r\n',
b'\r\n', b'^LRJOIN:923.2,5\r\n', b'\r\n', b'^LRJOIN:
923.2,4\r\n', b'\r\n', b'^LRJOIN:923.2,3\r\n', b'\r\n',
b'^LRJOIN:923.4,2\r\n']
-----
```

```
In [55]: time.sleep(0.1)
```

```
In [56]: appeui = Command("APPEUI", GET)
```

```
In [57]: lora.send_raw_command(appeui)
-----FOUND IN BUFFER-----
[b'\r\n', b'+APPEUI:>000000000000000001\r\n', b'OK\r\n',
b'\r\n', b'^LRJOIN:923.2,1\r\n']
-----
```

```
In [58]: print(appeui.serialize())
AT+APPEUI=?
```

```
In [58]:
```

```
In [59]: print(appeui.serialize())
AT+APPEUI=?
```

```
In [60]: runfile('/home/meraue/ugv/CloudCom2/lora_py/src/
lora_py/atiqah.py', wdir='/home/meraue/ugv/CloudCom2/
lora_py/src/lora_py')
```

```
In [61]: lora = SerialCommunication ("/dev/ttyUSB2", 9600,
timeout=1)
```

```
In [62]: lora.connect()
INFO: Connected Successfully to port: /dev/ttyUSB2
Out[62]: True
```

```
In [63]: runfile('/home/meraue/ugv/CloudCom2/lora_py/src/
lora_py/portcheck.py', wdir='/home/meraue/ugv/CloudCom2/
lora_py/src/lora_py')
File "<unknown>", line 9
    def portcheck(self):
    ^
IndentationError: unexpected indent
```

```
In [64]: runfile('/home/meraue/ugv/CloudCom2/lora_py/src/
lora_py/portcheck.py', wdir='/home/meraue/ugv/CloudCom2/
lora_py/src/lora_py')
File "<unknown>", line 12
```

```
def portcheck():
```

```
^
```

IndentationError: unexpected indent

```
In [65]: runfile('/home/meraque/ugv/CloudCom2/lora_py/src/
lora_py/portcheck.py', wdir='/home/meraque/ugv/CloudCom2/
lora_py/src/lora_py')
```

```
In [66]: runfile('/home/meraque/ugv/CloudCom2/lora_py/src/
lora_py/portcheck.py', wdir='/home/meraque/ugv/CloudCom2/
lora_py/src/lora_py')
```

```
In [67]: runfile('/home/meraque/ugv/CloudCom2/lora_py/src/
lora_py/portcheck.py', wdir='/home/meraque/ugv/CloudCom2/
lora_py/src/lora_py')
```

```
In [68]: runfile('/home/meraque/ugv/CloudCom2/lora_py/src/
lora_py/portcheck.py', wdir='/home/meraque/ugv/CloudCom2/
lora_py/src/lora_py')
```

```
In [69]: runfile('/home/meraque/ugv/CloudCom2/lora_py/src/
lora_py/portcheck.py', wdir='/home/meraque/ugv/CloudCom2/
lora_py/src/lora_py')
```

```
File "<unknown>", line 35
    if __name__ = '__main__':
                ^
```

SyntaxError: invalid syntax

```
In [70]: runfile('/home/meraque/ugv/CloudCom2/lora_py/src/
lora_py/portcheck.py', wdir='/home/meraque/ugv/CloudCom2/
lora_py/src/lora_py')
```

Traceback (most recent call last):

```
File "/home/meraque/miniconda3/lib/python3.8/site-
packages/spyder_kernels/py3compat.py", line 356, in
compat_exec
    exec(code, globals, locals)
```

```
File "/home/meraque/ugv/CloudCom2/lora_py/src/lora_py/
portcheck.py", line 36, in <module>
    print(serial_ports())
```

**NameError:** name 'serial\_ports' is not defined

```
In [71]: runfile('/home/meraue/ugv/CloudCom2/lora_py/src/
lora_py/portcheck.py', wdir='/home/meraue/ugv/CloudCom2/
lora_py/src/lora_py')
```

Output from spyder call 'get\_cwd':

```
Successfully connected to port ['/dev/ttyUSB2', '/dev/
ttyprintk', '/dev/ttyS31', '/dev/ttyS30', '/dev/ttyS29',
'/dev/ttyS28', '/dev/ttyS27', '/dev/ttyS26', '/dev/
ttyS25', '/dev/ttyS24', '/dev/ttyS23', '/dev/ttyS22', '/
dev/ttyS21', '/dev/ttyS20', '/dev/ttyS19', '/dev/ttyS18',
'/dev/ttyS17', '/dev/ttyS16', '/dev/ttyS15', '/dev/
ttyS14', '/dev/ttyS13', '/dev/ttyS12', '/dev/ttyS11', '/
dev/ttyS10', '/dev/ttyS9', '/dev/ttyS8', '/dev/ttyS7', '/
dev/ttyS6', '/dev/ttyS5', '/dev/ttyS4', '/dev/ttyS3', '/
dev/ttyS2', '/dev/ttyS1', '/dev/ttyS0']
```

Traceback (most recent call last):

```
File "/home/meraue/ugv/CloudCom2/lora_py/src/lora_py/
portcheck.py", line 28, in portcheck
    s = serial.Serial(port)
```

**NameError:** name 'serial' is not defined

During handling of the above exception, another exception occurred:

Traceback (most recent call last):

```
File "/home/meraue/miniconda3/lib/python3.8/site-
packages/spyder_kernels/py3compat.py", line 356, in
compat_exec
    exec(code, globals, locals)
```

```
File "/home/meraue/ugv/CloudCom2/lora_py/src/lora_py/
portcheck.py", line 36, in <module>
    print(portcheck())
```

```
File "/home/meraue/ugv/CloudCom2/lora_py/src/lora_py/
```

```
portcheck.py", line 31, in portcheck
    except (OSError, serial.SerialException):
```

**NameError:** name 'serial' is not defined

```
In [72]: runfile('/home/meraue/ugv/CloudCom2/lora_py/src/
lora_py/portcheck.py', wdir='/home/meraue/ugv/CloudCom2/
lora_py/src/lora_py')
```

```
Successfully connected to port ['/dev/ttyUSB2', '/dev/
ttyprintk', '/dev/ttyS31', '/dev/ttyS30', '/dev/ttyS29',
'/dev/ttyS28', '/dev/ttyS27', '/dev/ttyS26', '/dev/
ttyS25', '/dev/ttyS24', '/dev/ttyS23', '/dev/ttyS22', '/
dev/ttyS21', '/dev/ttyS20', '/dev/ttyS19', '/dev/ttyS18',
'/dev/ttyS17', '/dev/ttyS16', '/dev/ttyS15', '/dev/
ttyS14', '/dev/ttyS13', '/dev/ttyS12', '/dev/ttyS11', '/
dev/ttyS10', '/dev/ttyS9', '/dev/ttyS8', '/dev/ttyS7', '/
dev/ttyS6', '/dev/ttyS5', '/dev/ttyS4', '/dev/ttyS3', '/
dev/ttyS2', '/dev/ttyS1', '/dev/ttyS0']
['/dev/ttyUSB2']
```

```
In [73]: runfile('/home/meraue/ugv/CloudCom2/lora_py/src/
lora_py/portcheck.py', wdir='/home/meraue/ugv/CloudCom2/
lora_py/src/lora_py')
```

```
Successfully connected to port []
[]
```

```
In [74]: runfile('/home/meraue/ugv/CloudCom2/lora_py/src/
lora_py/portcheck.py', wdir='/home/meraue/ugv/CloudCom2/
lora_py/src/lora_py')
```

Traceback (most recent call last):

```
File "/home/meraue/miniconda3/lib/python3.8/site-
packages/spyder_kernels/py3compat.py", line 356, in
compat_exec
```

```
    exec(code, globals, locals)
```

```
File "/home/meraue/ugv/CloudCom2/lora_py/src/lora_py/
portcheck.py", line 38, in <module>
    print(portcheck())
```

```
File "/home/meraue/ugv/CloudCom2/lora_py/src/lora_py/
portcheck.py", line 21, in portcheck
```

```
ports = glob.glob('/dev/ttyUSB%s' % (i + 1) for i in
range(256)) #('/dev/ttyUSB[A-Za-z]*')
```

```
File "/home/meraue/miniconda3/lib/python3.8/glob.py",
line 21, in glob
    return list(iglob(pathname, recursive=recursive))
```

```
File "/home/meraue/miniconda3/lib/python3.8/glob.py",
line 42, in _iglob
    dirname, basename = os.path.split(pathname)
```

```
File "/home/meraue/miniconda3/lib/python3.8/
posixpath.py", line 103, in split
    p = os.fspath(p)
```

**TypeError:** expected str, bytes or os.PathLike object, not generator

```
In [75]: runfile('/home/meraue/ugv/CloudCom2/lora_py/src/
lora_py/portcheck.py', wdir='/home/meraue/ugv/CloudCom2/
lora_py/src/lora_py')
Successfully connected to port []
[]
```

```
In [76]: runfile('/home/meraue/ugv/CloudCom2/lora_py/src/
lora_py/portcheck.py', wdir='/home/meraue/ugv/CloudCom2/
lora_py/src/lora_py')
Traceback (most recent call last):
```

```
File "/home/meraue/miniconda3/lib/python3.8/site-
packages/spyder_kernels/py3compat.py", line 356, in
compat_exec
    exec(code, globals, locals)
```

```
File "/home/meraue/ugv/CloudCom2/lora_py/src/lora_py/
portcheck.py", line 38, in <module>
    print(portcheck())
```

```
File "/home/meraue/ugv/CloudCom2/lora_py/src/lora_py/
portcheck.py", line 22, in portcheck
    print("Successfully connected to port {}".ports)
#format(ports))
```

**AttributeError:** 'str' object has no attribute 'ports'

```
In [77]: runfile('/home/meraue/ugv/CloudCom2/lora_py/src/
lora_py/portcheck.py', wdir='/home/meraue/ugv/CloudCom2/
lora_py/src/lora_py')
Successfully connected to port []
[]
```

```
In [78]: runfile('/home/meraue/ugv/CloudCom2/lora_py/src/
lora_py/portcheck.py', wdir='/home/meraue/ugv/CloudCom2/
lora_py/src/lora_py')
Successfully connected to port ['/dev/ttyUSB2', '/dev/
ttyprintk', '/dev/ttyS31', '/dev/ttyS30', '/dev/ttyS29',
'/dev/ttyS28', '/dev/ttyS27', '/dev/ttyS26', '/dev/
ttyS25', '/dev/ttyS24', '/dev/ttyS23', '/dev/ttyS22', '/
dev/ttyS21', '/dev/ttyS20', '/dev/ttyS19', '/dev/ttyS18',
'/dev/ttyS17', '/dev/ttyS16', '/dev/ttyS15', '/dev/
ttyS14', '/dev/ttyS13', '/dev/ttyS12', '/dev/ttyS11', '/
dev/ttyS10', '/dev/ttyS9', '/dev/ttyS8', '/dev/ttyS7', '/
dev/ttyS6', '/dev/ttyS5', '/dev/ttyS4', '/dev/ttyS3', '/
dev/ttyS2', '/dev/ttyS1', '/dev/ttyS0']
Traceback (most recent call last):
```

```
File "/home/meraue/ugv/CloudCom2/lora_py/src/lora_py/
portcheck.py", line 30, in portcheck
    s = serial.Serial(port)
```

**NameError:** name 'serial' is not defined

During handling of the above exception, another exception occurred:

```
Traceback (most recent call last):
```

```
File "/home/meraue/miniconda3/lib/python3.8/site-
packages/spyder_kernels/py3compat.py", line 356, in
compat_exec
    exec(code, globals, locals)
```

```
File "/home/meraue/ugv/CloudCom2/lora_py/src/lora_py/
```

```
portcheck.py", line 38, in <module>
    print(portcheck())
```

```
File "/home/meraue/ugv/CloudCom2/lora_py/src/lora_py/
portcheck.py", line 33, in portcheck
    except (OSError, serial.SerialException):
```

**NameError:** name 'serial' is not defined

```
In [79]: runfile('/home/meraue/ugv/CloudCom2/lora_py/src/
lora_py/portcheck.py', wdir='/home/meraue/ugv/CloudCom2/
lora_py/src/lora_py')
```

```
Successfully connected to port ['/dev/ttyUSB2', '/dev/
ttyprintk', '/dev/ttyS31', '/dev/ttyS30', '/dev/ttyS29',
'/dev/ttyS28', '/dev/ttyS27', '/dev/ttyS26', '/dev/
ttyS25', '/dev/ttyS24', '/dev/ttyS23', '/dev/ttyS22', '/
dev/ttyS21', '/dev/ttyS20', '/dev/ttyS19', '/dev/ttyS18',
'/dev/ttyS17', '/dev/ttyS16', '/dev/ttyS15', '/dev/
ttyS14', '/dev/ttyS13', '/dev/ttyS12', '/dev/ttyS11', '/
dev/ttyS10', '/dev/ttyS9', '/dev/ttyS8', '/dev/ttyS7', '/
dev/ttyS6', '/dev/ttyS5', '/dev/ttyS4', '/dev/ttyS3', '/
dev/ttyS2', '/dev/ttyS1', '/dev/ttyS0']
```

Traceback (most recent call last):

```
File "/home/meraue/ugv/CloudCom2/lora_py/src/lora_py/
portcheck.py", line 30, in portcheck
    s = serial.Serial(port)
```

**NameError:** name 'serial' is not defined

During handling of the above exception, another exception occurred:

Traceback (most recent call last):

```
File "/home/meraue/miniconda3/lib/python3.8/site-
packages/spyder_kernels/py3compat.py", line 356, in
compat_exec
    exec(code, globals, locals)
```

```
File "/home/meraue/ugv/CloudCom2/lora_py/src/lora_py/
```



```
portcheck.py", line 38, in <module>
    print(portcheck())
```

```
File "/home/meraue/ugv/CloudCom2/lora_py/src/lora_py/
portcheck.py", line 33, in portcheck
    except (OSError, serial.SerialException):
```

**NameError:** name 'serial' is not defined

```
In [80]: runfile('/home/meraue/ugv/CloudCom2/lora_py/src/
lora_py/portcheck.py', wdir='/home/meraue/ugv/CloudCom2/
lora_py/src/lora_py')
```

```
Successfully connected to port ['/dev/ttyUSB2', '/dev/
ttyprintk', '/dev/ttyS31', '/dev/ttyS30', '/dev/ttyS29',
'/dev/ttyS28', '/dev/ttyS27', '/dev/ttyS26', '/dev/
ttyS25', '/dev/ttyS24', '/dev/ttyS23', '/dev/ttyS22', '/
dev/ttyS21', '/dev/ttyS20', '/dev/ttyS19', '/dev/ttyS18',
'/dev/ttyS17', '/dev/ttyS16', '/dev/ttyS15', '/dev/
ttyS14', '/dev/ttyS13', '/dev/ttyS12', '/dev/ttyS11', '/
dev/ttyS10', '/dev/ttyS9', '/dev/ttyS8', '/dev/ttyS7', '/
dev/ttyS6', '/dev/ttyS5', '/dev/ttyS4', '/dev/ttyS3', '/
dev/ttyS2', '/dev/ttyS1', '/dev/ttyS0']
['/dev/ttyUSB2']
```

```
In [81]: runfile('/home/meraue/ugv/CloudCom2/lora_py/src/
lora_py/portcheck.py', wdir='/home/meraue/ugv/CloudCom2/
lora_py/src/lora_py')
```

```
Successfully connected to port ['/dev/ttyUSB2', '/dev/
ttyprintk', '/dev/ttyS31', '/dev/ttyS30', '/dev/ttyS29',
'/dev/ttyS28', '/dev/ttyS27', '/dev/ttyS26', '/dev/
ttyS25', '/dev/ttyS24', '/dev/ttyS23', '/dev/ttyS22', '/
dev/ttyS21', '/dev/ttyS20', '/dev/ttyS19', '/dev/ttyS18',
'/dev/ttyS17', '/dev/ttyS16', '/dev/ttyS15', '/dev/
ttyS14', '/dev/ttyS13', '/dev/ttyS12', '/dev/ttyS11', '/
dev/ttyS10', '/dev/ttyS9', '/dev/ttyS8', '/dev/ttyS7', '/
dev/ttyS6', '/dev/ttyS5', '/dev/ttyS4', '/dev/ttyS3', '/
dev/ttyS2', '/dev/ttyS1', '/dev/ttyS0']
['/dev/ttyUSB2']
```

```
In [82]: runfile('/home/meraue/ugv/CloudCom2/lora_py/src/
lora_py/atiqah.py', wdir='/home/meraue/ugv/CloudCom2/
lora_py/src/lora_py')
```

```
In [83]: runfile('/home/meraque/ugv/CloudCom2/lora_py/src/
lora_py/atiqah.py', wdir='/home/meraque/ugv/CloudCom2/
lora_py/src/lora_py')
Welcome To LoRa Checker
```

```
In [84]: runfile('/home/meraque/ugv/CloudCom2/lora_py/src/
lora_py/atiqah.py', wdir='/home/meraque/ugv/CloudCom2/
lora_py/src/lora_py')
---Welcome To LoRa Checker---
```

```
In [85]: runfile('/home/meraque/ugv/CloudCom2/lora_py/src/
lora_py/atiqah.py', wdir='/home/meraque/ugv/CloudCom2/
lora_py/src/lora_py')
---Welcome To LoRa Checker---
INFO: Connected Successfully to port: /dev/ttyUSB2
```

```
In [86]: runfile('/home/meraque/ugv/CloudCom2/lora_py/src/
lora_py/atiqah.py', wdir='/home/meraque/ugv/CloudCom2/
lora_py/src/lora_py')
File "<unknown>", line 301
    time.sleep(0.1)
    ^
SyntaxError: invalid syntax
```

```
In [87]: runfile('/home/meraque/ugv/CloudCom2/lora_py/src/
lora_py/atiqah.py', wdir='/home/meraque/ugv/CloudCom2/
lora_py/src/lora_py')
File "<unknown>", line 338
    #     print(f"Error connecting to serial port {err}")
    ^
SyntaxError: unexpected EOF while parsing
```

```
In [88]: # time.sleep(0.1)
```

```
In [89]: runfile('/home/meraque/ugv/CloudCom2/lora_py/src/
lora_py/atiqah.py', wdir='/home/meraque/ugv/CloudCom2/
lora_py/src/lora_py')
File "<unknown>", line 339
    #     print(f"Error connecting to serial port {err}")
    ^
SyntaxError: unexpected EOF while parsing
```

```
In [90]: runfile('/home/meraue/ugv/CloudCom2/lora_py/src/
lora_py/atiqah.py', wdir='/home/meraue/ugv/CloudCom2/
lora_py/src/lora_py')
```

```
---Welcome To LoRa Checker---
```

```
INFO: Connected Successfully to port: /dev/ttyUSB2
```

```
In [91]: runfile('/home/meraue/ugv/CloudCom2/lora_py/src/
lora_py/atiqah.py', wdir='/home/meraue/ugv/CloudCom2/
lora_py/src/lora_py')
```

```
---Welcome To LoRa Checker---
```

```
INFO: Connected Successfully to port: /dev/ttyUSB2
```

```
In [92]: time.sleep(0.1)
```

```
In [93]: print("coming data: ", lora.is_available)
coming data: 110
```

```
In [94]: data = lora.readlines()
```

```
In [95]: print(data)
```

Output from spyder call 'get\_cwd':

```
[b'\r\n', b'+DEVINFO:"M300C(256K)  FW VER:1.1.6  HW VER:
1.2(H)  BOOT VER:0.99.25  LORAWAN VER:1.0.2
REGION:AS923"\r\n', b'OK\r\n']
```

```
In [96]: runfile('/home/meraue/ugv/CloudCom2/lora_py/src/
lora_py/atiqah.py', wdir='/home/meraue/ugv/CloudCom2/
lora_py/src/lora_py')
```

```
---Welcome To LoRa Checker---
```

```
INFO: Connected Successfully to port: /dev/ttyUSB2
```

```
coming data: 79
```

```
[b'\r\n', b'+DEVINFO:"M300C(256K)  FW VER:1.1.6  HW VER:
1.2(H)  BOOT VER:0.99.25  LORAWAN VER:1.0.2
REGION:AS923"\r\n', b'OK\r\n']
```

```
In [97]: status = Command("STATUS", GET)
```

```
In [98]: print(status.serialize())
AT+STATUS=?
```

```
In [99]: print(lrsend.serialize())
Traceback (most recent call last):

  File "/tmp/ipykernel_3310/818249315.py", line 1, in
<module>
    print(lrsend.serialize())
```

**NameError:** name 'lrsend' is not defined

```
In [100]: device_class = Command("DEVCLASS", SET)
```

```
In [101]: print(device_class.serialize())
AT+DEVCLASS=0
```

```
In [102]: lora.send(b"AT+DEVINFO=?\r\n")
```

```
In [103]: lora.connect() #
INFO: Connected Successfully to port: /dev/ttyUSB2
Out[103]: True
```

```
In [104]: lora = Lora("/dev/ttyUSB2", 9600, timeout=0.1)
```

```
In [105]: lora.connect()
INFO: Connected Successfully to port: /dev/ttyUSB2
Out[105]: True
```

```
In [106]: appeui = Command("APPEUI", GET)  #(atiqah)
```

```
In [107]: lora.send_raw_command(appeui)  #(atiqah)
```

```
In [108]: time.sleep(0.1)
```

```
In [109]: print(appeui.serialize())
AT+APPEUI=?
```

```
In [110]: appeui = Command("APPEUI", GET)
```

```
In [111]: print(appeui.serialize())
AT+APPEUI=?
```

```
In [112]: lora.send_raw_command(appeui) #(atiqah)
-----FOUND IN BUFFER-----
[b'\r\n', b'+APPEUI:>0000000000000001\r\n', b'OK\r\n']
-----
```

```
In [113]: print(appeui.serilize())
AT+APPEUI=?
```

```
In [114]: time.sleep(0.1)
```

```
In [115]: lora.send_raw_command(appeui) #(atiqah)
-----FOUND IN BUFFER-----
[b'\r\n', b'+APPEUI:>0000000000000001\r\n', b'OK\r\n']
-----
```

```
In [116]: lora.send_raw_command(appeui.serilize())
#(atiqah)
Traceback (most recent call last):
```

```
File "/tmp/ipykernel_3310/3678082312.py", line 1, in
<module>
    lora.send_raw_command(appeui.serilize()) #(atiqah)
```

```
File "/tmp/ipykernel_3310/4093601813.py", line 32, in
send_raw_command
    command = command.serilize().encode()
```

```
AttributeError: 'str' object has no attribute 'serilize'
```

```
In [117]: print(appeui.decode_data())
None
```

```
In [118]: print(appeui.serilize())
AT+APPEUI=?
```

```
In [119]: lora.send_raw_command(appeui)
-----FOUND IN BUFFER-----
[b'\r\n', b'+APPEUI:>0000000000000001\r\n', b'OK\r\n']
```

-----  
In [120]: lora.send\_raw\_command(appeui.decode\_data())  
Traceback (most recent call last):

File "/tmp/ipykernel\_3310/2117613184.py", line 1, in  
<module>  
 lora.send\_raw\_command(appeui.decode\_data())

File "/tmp/ipykernel\_3310/4093601813.py", line 32, in  
send\_raw\_command  
 command = command.serialize().encode()

AttributeError: 'NoneType' object has no attribute  
'serialize'

In [121]: status = Command("STATUS", GET)

In [122]: time.sleep(0.1)

In [123]: runfile('/home/meraue/ugv/CloudCom2/lora\_py/  
src/lora\_py/lora2.py', wdir='/home/meraue/ugv/CloudCom2/  
lora\_py/src/lora\_py')  
LRCONFIRM 3 ['1', '-128', '10', '481.5', '0']  
Traceback (most recent call last):

File "/home/meraue/miniconda3/lib/python3.8/site-  
packages/spyder\_kernels/py3compat.py", line 356, in  
compat\_exec  
 exec(code, globals, locals)

File "/home/meraue/ugv/CloudCom2/lora\_py/src/lora\_py/  
lora2.py", line 7, in <module>  
 from commands2 import \*

File "/home/meraue/ugv/CloudCom2/lora\_py/src/lora\_py/  
commands2.py", line 177, in <module>  
 print(lrrecv.port)

AttributeError: 'Command' object has no attribute 'port'

```
In [124]: lrrecv = Command.construct_from_payload(name,
mode, payload)
```

```
In [125]: lora.send_raw_command(status)
-----FOUND IN BUFFER-----
[b'\r\n', b'+APPEUI:>00000000000000001\r\n', b'OK\r\n']
-----
```

```
In [126]: lora.send_raw_command(status)
-----FOUND IN BUFFER-----
[b'\r\n', b'+STATUS:2\r\n', b'OK\r\n']
-----
```

```
In [127]: lora.send_raw_command(status)
-----FOUND IN BUFFER-----
[b'\r\n', b'+STATUS:2\r\n', b'OK\r\n']
-----
```

```
In [128]: lora.send_raw_command(appeui)
-----FOUND IN BUFFER-----
[b'\r\n', b'+STATUS:2\r\n', b'OK\r\n']
-----
```

```
In [129]: """
File "/tmp/ipykernel_3310/969763094.py", line 1
    """
    ^
```

```
SyntaxError: EOF while scanning triple-quoted string
literal
```

```
In [130]: time.sleep(0.1)
```

```
In [131]: lora.send_raw_command(appeui)
-----FOUND IN BUFFER-----
[b'\r\n', b'+APPEUI:>00000000000000001\r\n', b'OK\r\n']
-----
```

```
In [132]: lora.send(b"AT+DEVINFO=?\r\n")
```

```
In [133]: data = lora.readlines()
```

```
In [134]: time.sleep(0.1)
```

```
In [135]: print(data)
[b'\r\n', b'+APPEUI:>0000000000000001\r\n', b'OK\r\n',
b'\r\n', b'+DEVINFO:"M300C(256K)  FW VER:1.1.6  HW VER:
1.2(H)  BOOT VER:0.99.25  LORAWAN VER:1.0.2
REGION:AS923"\r\n', b'OK\r\n']
```

```
In [136]: print(data)
[b'\r\n', b'+APPEUI:>0000000000000001\r\n', b'OK\r\n',
b'\r\n', b'+DEVINFO:"M300C(256K)  FW VER:1.1.6  HW VER:
1.2(H)  BOOT VER:0.99.25  LORAWAN VER:1.0.2
REGION:AS923"\r\n', b'OK\r\n']
```

```
In [137]: status = Command("STATUS", GET)
```

```
In [138]: print(status.serialize())
AT+STATUS=?
```

```
In [139]: lora.send_raw_command(status)
```

```
In [140]: time.sleep(0.1)
```

```
In [141]: lora.send_raw_command(status)
-----FOUND IN BUFFER-----
[b'\r\n', b'+STATUS:2\r\n', b'OK\r\n']
-----
```

```
In [142]: name, mode, payload =
Command.command_check(command_raw)
```

```
In [143]: print(name, mode, payload)
LRCONFIRM 3 ['1', '-128', '10', '481.5', '0']
```

```
In [144]:
```