

# ANDi SDK

...SIMPLIFY YOUR TEST EXPERIENCE!

## DESCRIPTION

ANDi (Automotive Network Diagnoser) has been evolving and improving for over 10 years, addressing the challenges faced in testing Automotive technologies. ANDi SDK is a special solution for programmers that want to use the functionalities of Technica's ANDi tool in a Python scripting environment on both Windows and Linux computers.

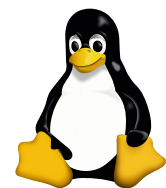
ANDi SDK is the portable lightweight ANDi software development kit. This kit comes as a Python® library that allows the use of ANDi scripting API directly from Python® 3.



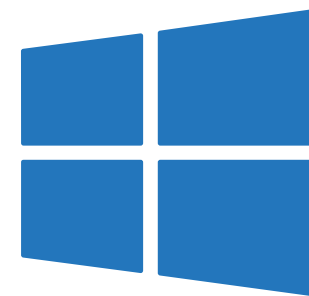
## BENEFITS

### OPERATING SYSTEMS

- ANDi SDK can be used on both Windows and Linux machines



LINUX



### "HEADLESS" MODE

- Use the underlying ANDi functions with any IDE
- Import ANDi functions in your existing test automation by simply calling them via API
- Directly import ANDi SDK or needed packages from it in Python® scripts

## SOME MAIN FEATURES

- Simulating SOME/IP nodes with a powerful Rest Bus Simulator
- Building ethernet stack with the help of message builder using different automotive protocols
- Emulate and receive online/offline traffic with powerful encoding/decoding libraries
- To experience more of ANDi SDK, install our tool via <https://pypi.org/project/andisdk/> and get to know the numerous functionalities

## CONTACT

If you have any questions regarding this product, please feel free to contact us.

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## INSTALLATION REQUIREMENTS

For the installation, please follow the ANDi SDK installation guide under <https://files.technica-engineering.de/ANDi/>

### SUPPLEMENTARY SOFTWARE

- .NET 6 runtime: responsible for running ANDi library files (dlls)
- CodeMeter: responsible for license handling
- Npcap/WiNpcap (on Windows) or Libpcap (on Linux): responsible for hardware interfaces

### ANDi SDK SOFTWARE

- The Python.NET library (included in the ANDi SDK installation): enables running .NET code from Python Runtime

### ANDi LICENSE

- ANDi SDK can be used with your ANDi license. If you don't already have a license, you can request one via [sales@technica-engineering.de](mailto:sales@technica-engineering.de).

If you need more details you can reach out to our installation guide:

[https://files.technica-engineering.de/ANDi/ANDi%20SDK%20installation%20Guide\\_v2.0.pdf](https://files.technica-engineering.de/ANDi/ANDi%20SDK%20installation%20Guide_v2.0.pdf)

## SUPPORTED FORMATS AND STANDARDS

### STANDARDS

- AUTOSAR Classic and Adaptive
- AUTOSAR Time Synchronization (PTP, gPTP)
- PLP (Probe Logger Protocol)
- TECMP
- ASAM CMP

### BUS DESCRIPTION

- ARXML (Classic Platform)
- ARXML (Adaptive Platform)
- LDF (LIN Description File)
- FIBEX
- PRG (via EDIABAS)
- DBC

### SUPPORTED TRACE FORMATS

Signal-based trace formats:

- CSV
- MDF

Bus logging:

- ASC
- BLF
- MDF
- PCAP
- PCAPNG

A script example to create and send a UDP message with ANDi SDK

### EXAMPLE

```
example.py X
example.py > ...
1 # this example will create and send an udp message
2 from andisdk import message_builder, andi
3 adapters = andi.get_adapters()
4
5 #Create Ethernet channel
6 channel = andi.create_channel("Ethernet")
7
8 #Create UDP message
9 message = message_builder.create_udp_message(channel, channel)
10
11 #Affect Payload
12 message.payload = tuple([0x01, 0x02, 0x03, 0x04])
13
14 #Send UDP message
15 message.send()
```

## SUPPORT

To avoid potential problems, please make sure to use the latest version of ANDi SDK. If you need help or want to report a bug, send an email to [ANDi@technica-engineering.de](mailto:ANDi@technica-engineering.de) to contact our support team.

Please include the following information in your email:

- All steps to reproduce the problem (if reproducible)
- Your ANDi SDK version

Please make sure to use the last official version of ANDi SDK.

### WHAT ARE YOU WAITING FOR?

Download ANDi SDK now!

<https://pypi.org/project/andisdk/>