

How to Install Python SDK and Read Log

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Description

Due to the fact that many field projects require variable functions in real practice, Milesight thus provides API for secondary development in order to meet the various needs. Some python libraries like paho-mqtt, pymodbus, pyserial that require compiler GCC, have been integrated. If you need any other python libraries, please contact Milesight about your application so that we can evaluate and pre-install the libraries like cryptography for you.

This article describes how to install Python SDK and Python APP and how to view activity log. Take upload Python SDK of UR32 and cellularStatusWriteSerial APP as an example.

You can download Python SDK from [here](https://www.milesight-iot.com/software-download/) (<https://www.milesight-iot.com/software-download/>).

Requirements

- mSD card/SSD module
- Milesight Gateway/Router
- Milesight Gateway/Router Python SDK

Configuration

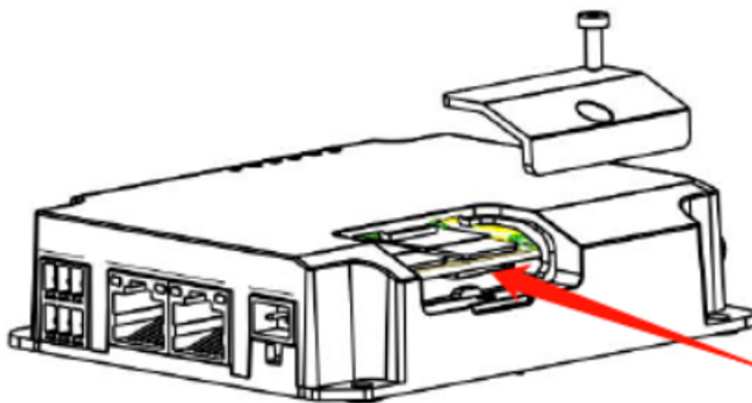
Upload Python SDK

1. Install mSD card or SSD module

UG6X/UG85/UF51: No mSD card slot or SSD slot. Supported to save application and data cache in built-in eMMC.

UG87/UR75-5G: Supported to save application and data cache in built-in eMMC or extra SSD module.

UR32:



Install mSD card

UR35:

[Help](#)



Install mSD card

UR51:



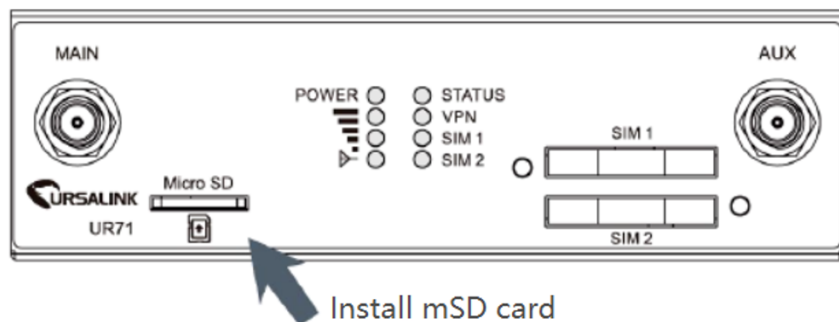
Install mSD card

UR52/55:

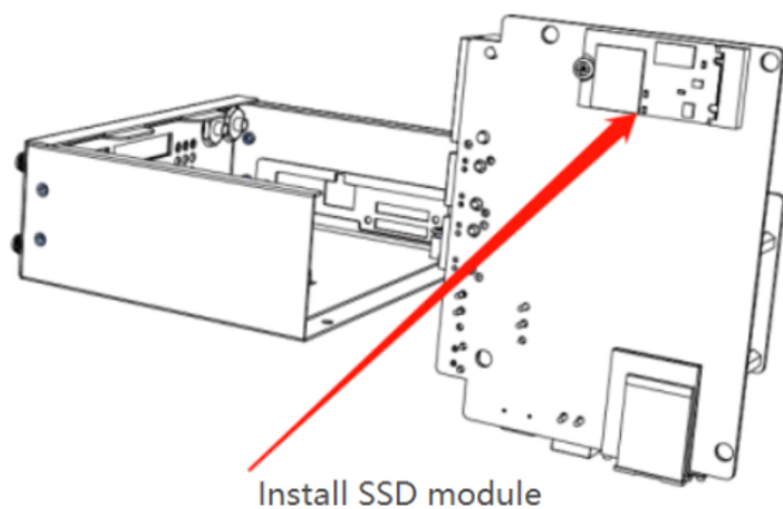


Install mSD card

UR71:

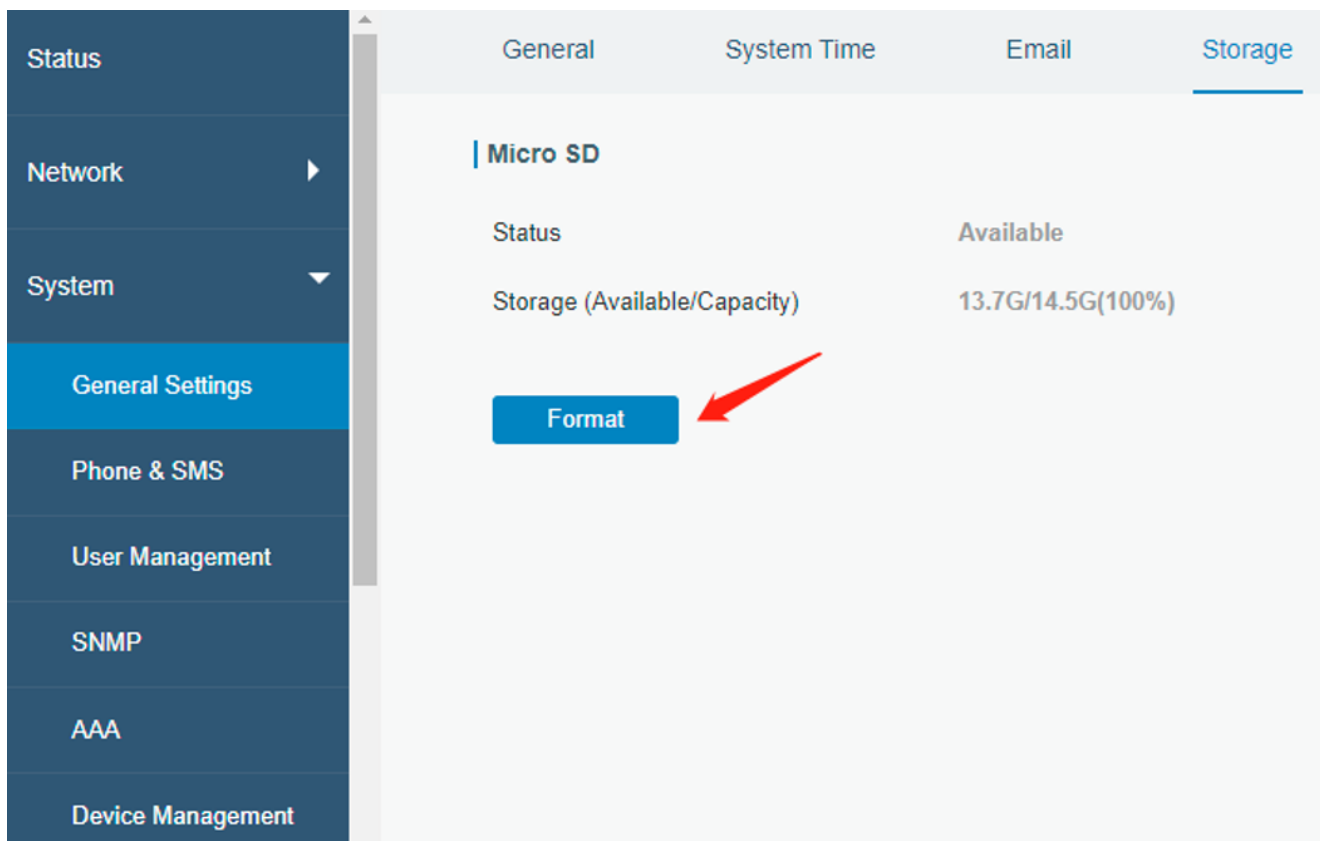


UR72/75:



2. Go to **System -> General Settings -> Storage** of Web GUI, click **Format** to clean up the files in the disk. Please double check if you want to format mSD or SSD.

Note: Whether to format the mSD card/SSD module should depend on the real situations.



Formatting disk will clean up the files in the disk, do you want
to continue?



3. Go to **APP -> Python -> Python -> SDK Upload**, click **Browser** to select Python SDK according to the device model, select an Available Storage, click **Browser** to import Python SDK from your computer, click **Install** to upload it.

The screenshot displays the IoT Support interface for installing the Python SDK. The left sidebar shows the 'Python' section selected. The main configuration area for the 'Python APP' shows the 'AppManager Status' as 'Uninstalled'. The 'SDK Version' is '4.0.1', and the 'SDK Path' is set to 'Micro SD'. The 'Available Storage' is also 'Micro SD'. The 'SDK Upload' field is empty, with 'Browse' and 'Install' buttons. A file explorer window is open, showing the file 'pysdk-ur3x-4.0.1.tar.gz' selected. The file explorer window title is '打开' (Open). The file explorer shows a list of files: 'cellularStatusWriteSerial.zip', 'pysdk-ur3x-3.0.1.tar.gz', 'pysdk-ur3x-4.0.1.tar.gz', and 'Ursalink SDK(Python) API-v1.14.pdf'. The file 'pysdk-ur3x-4.0.1.tar.gz' is highlighted. The file explorer window has a search bar with '搜索\"UR3X Python\"' (Search 'UR3X Python'). The file explorer window has a file name field with 'pysdk-ur3x-4.0.1.tar.gz' and a file type dropdown set to '所有文件 (*.*)' (All files (*.*)). The file explorer window has '打开(O)' (Open) and '取消' (Cancel) buttons.

Python AppManager Configuration Python APP

Python

AppManager Status Uninstalled

SDK Version 4.0.1 Uninstall

SDK Path Micro SD

Available Storage Micro SD

SDK Upload Browse Install

打开

« pyth... » UR3X Py... 搜索"UR3X Python"

组织 新建文件夹

名称 修改日期 类

cellularStatusWriteSerial.zip 2019/9/20 15:16 36

pysdk-ur3x-3.0.1.tar.gz 2020/10/22 9:15 36

pysdk-ur3x-4.0.1.tar.gz 2021/9/3 16:52 36

Ursalink SDK(Python) API-v1.14.pdf 2020/7/14 15:41 M

文件名(N): pysdk-ur3x-4.0.1.tar.gz 所有文件 (*.*)

打开(O) 取消

If SDK for another models is uploaded, a warning note will indicate.

Status	Python	AppManager Configuration	Python APP
Network	 Python		
System	AppManager Status Uninstalled		
Industrial	SDK Version		
Maintenance	SDK Path		
APP	Available Storage Micro SD		
Python	SDK Upload C:\fakepath\pysdk-ur76-2.1.6 <input type="button" value="Browse"/> <input type="button" value="Install"/>		
	The SDK version and firmware version do not match		

Import Python APP package

1. Go to **APP -> Python -> Python APP -> Import APP Package**, click **Browse** to select your Python APP package, and then click **Import** to upload it in .zip format. Take import cellularStatusWriteSerial APP package as an example:
Note: if the App was not packaged as the sample code, as placed within an extra folder, a warning note will indicate "I/O error".

Status	Python	AppManager Configuration	Python APP
Network	 Import App Package		
System	App Package C:\fakepath\cellularStatusWri <input type="button" value="Browse"/> <input type="button" value="Import"/>		
Industrial	 Import App Configuration		
Maintenance	App Name		
APP	App Configuration <input type="button" value="Browse"/> <input type="button" value="Import"/>		
Python	 Debug Script		
	Debug File <input type="button" value="Export"/>		
	Debug Script <input type="button" value="Browse"/> <input type="button" value="Import"/>		

Please check the example App at the end of the article and note that do not compress more than once when packing your App program.

2. Go to **APP -> Python -> AppManager Configuration -> AppManager**, enable **AppManager**.

The screenshot shows the 'AppManager Configuration' page. On the left is a sidebar with 'Python' selected. The main content area has three tabs: 'Python', 'AppManager Configuration' (active), and 'Python APP'. Under 'AppManager', the 'Enable' checkbox is checked, with a red arrow pointing to it. Below this is the 'App Management' table:

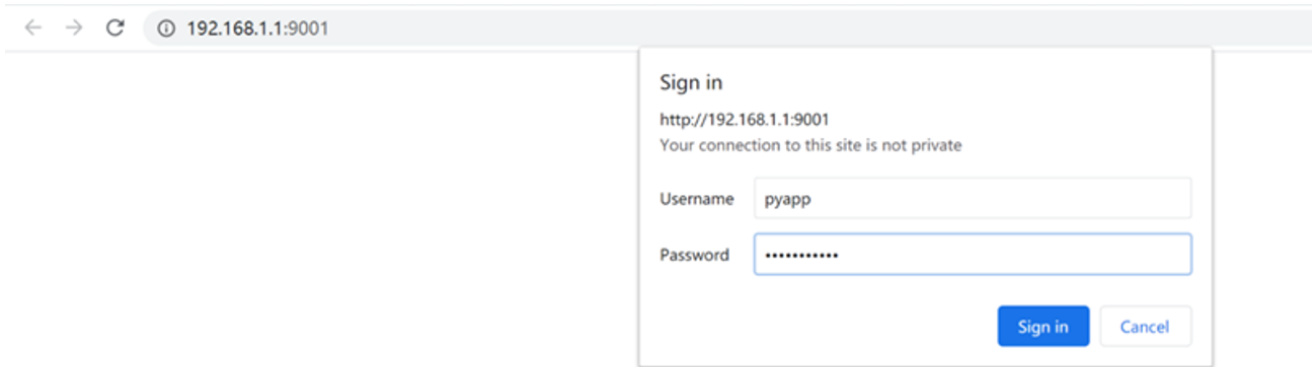
ID	App Command	Logfile Size(MB)	Uninstall
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Below the table is the 'App Status' section with a table:

App Name	App Version	SDK Version
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At the bottom is the 'Change App Account Info' section with form fields for Username (pre-filled with 'pyapp'), Old Password, New Password, and Confirm New Password.

3. Go to **APP -> Python -> Python**, click **View** and enter Supervisor page, the default username and password is: pyapp/ py123456app



4. Click **Tail-f**, check the Python Log. Log is available only with AppManager enabled.

The screenshot shows the 'Supervisor status' page. At the top, there are three buttons: 'REFRESH', 'RESTART ALL', and 'STOP ALL'. Below these is a table with the following columns: 'State', 'Description', 'Name', and 'Action'.

State	Description	Name	Action
running	pid 29603, uptime 0:13:32	cellularStatusWriteSerial	Restart Stop Clear Log Tail -f

A red arrow points to the 'Tail -f' link in the 'Action' column of the first row.

Note: Python App and data cache are all saved in mSD/SSD/eMMC. It is advised to take memory space into consideration when developing Python SDK.

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H Harry is the author of this solution article.