

BITMAIN



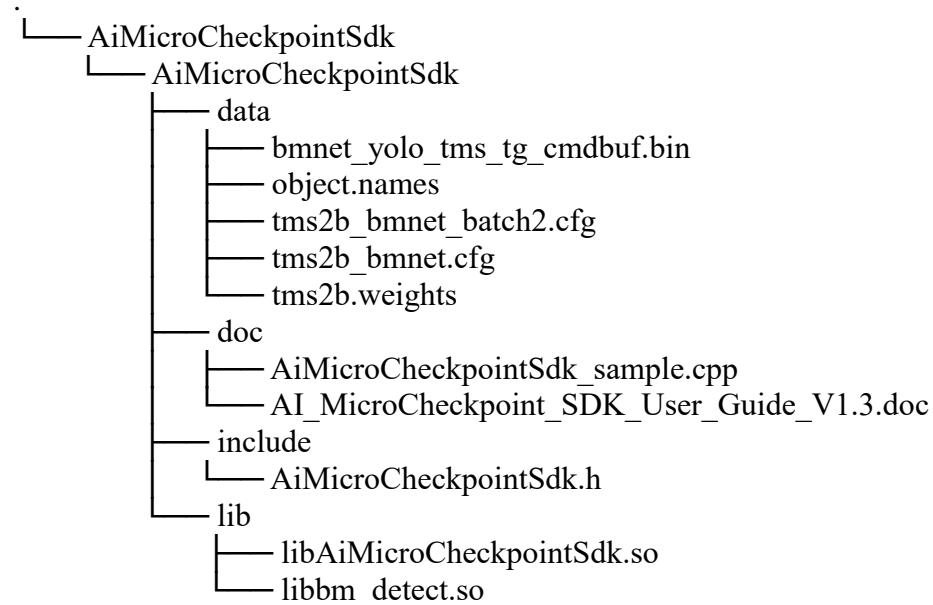
SOPHION

Safe City & Smart City Micro Checkpoint System

SDK User Guide V1.3

Document Number	Version	Release Date
SUG-181002	V1.3	2018/02/05

1. SDK Folder Structure



2. SDK Runtime Environment

OS: Ubuntu16.04.3 LTS 64-bit

Driver layer: bmdnn_runtime_vxx.yy.tar.gz (xx.yy is version number)
ivs-demo_v1.0.tar.gz
msdk_16.5.1125-1_amd64_SS1.deb

After the environment is installed, SDK can be copied to any folder to be used.

Attention : Due to Qt is used for UI in SDK sample code, Qt must be installed if you want to run the sample code. However, Qt sample code is only used for demo, it's not necessary to SDK.

3. Files Need To Be Included

Header file: AiMicroCheckpointSdk.h

Lib files:

LIBS += -ldarknet -libm_detect -lAiMicroCheckpointSdk \

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```
/usr/local/lib/libopencv_core.so \  
/usr/local/lib/libopencv_video.so \  
/usr/local/lib/libopencv_videoio.so \  
/usr/local/lib/libopencv_highgui.so \  
/usr/local/lib/libopencv_imgproc.so \  
/usr/local/lib/libopencv_imgcodecs.so
```

libAiMicroCheckpointsdk.so and libbm_detect.so are included in AiMicroCheckpointSdk/lib, other libraries are included in the system folder (/usr/local/lib).

4. API References

Refer to AiMicroCheckpointSdk.h in include directory of SDK package.

5. C++ sample code

Refer to AiMicroCheckpointSdk_sample.cpp in doc directory of SDK package.