Qualcomm Developer Project  
MultiRtspDecoderApp

Project Submission

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| **Project Title**\* | **MultiRtspDecoder** | |
| **Images**  *Upload up to 5 images of your project*  *Please submit/send the original JPEG/PNG files for all images included in the document* | **865HDK.png**  865HDK [alt tag: “MultiRtspDecoder using the Snapdragon™ 865 Mobile Hardware Development Kit development board.”] **Type-C.png**   |  | | --- | | **typc** |   [alt tag: “**using the type-c line to develop on 865HDK development board.** ”]  [alt tag: “use mini-hdmi line to connect display **.**”]  HIKVISION\_Camera.png  HIKVISION_Camera | |
| **Description**\*  *High level description of the project* ***(75 words or less)*** | Using 865HDK-c845 to collect multiple 1080 camera data through RTSP, decode and output to HDMI display . | |
| **Objective**   * *What inspired you to create this project?* * *What is your desired outcome?* | Show the powerful decoding and computing power of 865HDK-c845 through 8 decoding videos. | |
| **Materials Required / Parts List / Tools** | Part Name | Link to purchase |
| 865HDK | https://www.thundercomm.com/app\_zh/product/1580977369756523?index=0&categoryId=79&tabIndex=1 |
| Type-c line | https://detail.tmall.com/item.htm?id=44425281296&ali\_refid=a3\_430582\_1006:1103572855:N:8BFxSxK119dzkfQCc2yGI2us815vvcUHETWnj5g1swo=:6399b40850a40201c56536531a885bcf&ali\_trackid=1\_6399b40850a40201c56536531a885bcf&spm=a230r.1.14.11 |
| HIKVISION\_Camera | https://item.jd.com/100006551428.html |
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| **Source Code / Source Examples / Application Executable**  *Link to open source / shareable code repository* | Description | Link |
| [Source Code](https://github.com/canyudeguang/Home_Automation) |  |
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| **Additional Resources**  *List related links or resources such as websites, videos, presentations, or other materials* | Resource Title | Link or File Name (and provide file) |
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| **Build / Assembly Instructions** | Sample outline:   1. Overall design framework and Test environment construction method.      1. Software Build Instructions    1. Prepare a PC (Ubuntu 16.04 window MAC);    2. Install adb and Qualcomm® Snapdragon™ Profiler tools; 2. Install app to 865 hdk device   Adb device; adb install MultiRtspDecoder.apk | |
|  | Sample outline:   1. How does it work?   Below are some usage instructions to test the project.Now let's introduce the MultiRtspDecoderApp ’s workflow. It .  MultiRtspDecoderApp application realizes the simultaneous decoding and display of video data of 16-way RTSP camera.  Init Activity -> create Fragment -> init RtspClient -> start Decoder -> start Display | |
| **Usage Instructions** | Sample outline:   1. Install app to 865 hdk device   adb install MultiRtspDecoder.apk   1. Start app. 2. connect wifi/wired network, start “edgebox client” app      1. Click control to add RTSP URL(support up to 16 channels)   test4  c . Click OK to start playing     1. How to use Qualcomm® Snapdragon™ Profiler tools ? 2. Log in to the official website of Qualcomm and register your account.   https://www.qualcomm.cn/   1. Find the document "How to capture snapshot with SnapdragonProfiler" and use the profiler for reference.   Profiler-savefile.png    Profiler.png  profiler | |
| **Contributor(s) Info**  *Feel free to include headshots!* | Name | Title  Company |
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Filters and Tags for QDN projects page

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| **Platform/Hardware** | CSR 101x/102x Bluetooth  DragonBoard 410c  mangOH Red/Yellow | MDM920x LTE for IoT  QCA-402x WiFi/BLE/Zigbee  √     Qualcomm Robotics RBx Dev Kit |
| **Software Tools** | 3D Audio Plugin for Unity  Adreno GPU SDK  Hexagon DSP SDK | Neural Processing SDK for AI  √ Snapdragon Profiler |
| **Operating System** | √ Android  Linux  ThreadX RTOS | Ubuntu Core  Windows 10 IoT Core |
| **Cloud Services/Platform** | Sierra Wireless AirVantage  Gizwits Cloud Platform  AT&T M2X  IBM Bluemix | IBM Watson IoT  Microsoft Azure IoT  Amazon AWS IoT |
| **Skill Level Required** | √ Advanced  Beginner  Intermediate |  |
| **Areas of Focus** | 3D Printing & Modeling  Alexa Voice Service  Artificial Intelligence  Bluetooth  Computer Vision  Digital Signage  √ Education  √ Embedded  Gaming | √ Healthcare  √ IoT  √ Robotics  √ Security  Sensors  √ Smart Cities  √ Smart Home  √ Toys |

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