

AC630/1N Version Information

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SDKLevel Description

ACategory: Problem fix, customer must fix

BCategory: Performance optimization, customer can choose to repair

CCategory: Functions added, customers can choose



AC630/1N_bt_data_transfer_sdk_release_v2.3.0

Release level:C

Release time:2024Year3moon31day

Released versions:AC630/1N_bt_data_transfer_sdk_release_v2.3.0

releaseSDKModification Notes:

1. Add support for Apple FINDMY positioning function access.
2. Add firmware FLASH write protection support.
3. Add support for multi-algorithm authentication.
- 4, Added support for MAP protocol to obtain mobile phone time.
- 5, fixed known issues.

SDKBasic introduction link:

- 1,SDKintroduce:https://doc.zh-jieli.com/AC63/zh-cn/release_v2.3.0/index.html
- 2, Project documentation related:https://gitee.com/Jieli-Tech/fw-AC63_BT_SDK/tree/master/doc
- 3, Hardware related information:https://gitee.com/Jieli-Tech/fw-AC63_BT_SDK/tree/master/doc/datasheet
- 4,SDKtool:https://gitee.com/Jieli-Tech/fw-AC63_BT_SDK/tree/master/sdk_tools
- 5, Open source technology community:https://gitee.com/Jieli-Tech/fw-AC63_BT_SDK/issues

New feature introduction link:

1. FINDMY positioning function:https://doc.zh-jieli.com/AC63/zh-cn/release_v2.3.0/module_demo/spple/FindMy.html
2. Add multi-algorithm authentication function:https://doc.zh-jieli.com/Tools/zh-cn/mass_prod_tools/multi_auth/index.html
3. Firmware flash write protection function:https://doc.zh-jieli.com/Tools/zh-cn/dev_tools/toolchains/otp_cfg.html

Tool version:

- 1, One to Two:V2.27.8
- 2, One to Eight:V3.1.22
- 3, Test box:V1.3.1
- 4, Configuration tools:2.0.43
5. FW editing tools:2.0.58
- 6, Toolchain:v2.4.9
- 7, Toolkit:v2.0.2

AC630/1N_bt_data_transfer_sdk_release_v2.2.0

Release level:A

Release time:2022Year11moon11day

Released versions:AC630/1N_bt_data_transfer_sdk_release_v2.2.0

releaseSDKModification Notes:

1. Fixed the IO leakage issue when AC635N & AC636N is turned off.
2. Added support for AC636N series E&G versions.
3. The USB Dongle application of AC632N/AC636N adds support for OTA upgrade and upgrade of remote devices.
4. AC632N adds simple electric vehicle application DEMO.
5. AC632N adds audio codec library support (ADPCM, SBC, MSBC, OPUS).
6. AC632N adds DCDC mode detection and automatically switches to LDO mode when the voltage is lower than 2.4V.
7. Added support for non-maskable interrupts for AC631N/AC632N/AC636N.
8. Add Provisioner code example to MESH application.
9. Added support for docking with Huawei HI-LINK protocol.
10. BLE adds a configurable high-priority ATT data sending channel.
11. The SDK introduction document adds the description of the relationship between the chip VBAT power supply and the system clock frequency.
12. Fixed other issues.

Tool version:

- 1, One to Two:V2.26.8
- 2, One to Eight:V3.1.14
- 3, Test box:V1.2.8
- 4, Configuration tools:2.0.24
5. FW editing tools:2.0.50
- 6, Toolchain:v2.4.7
- 7, Toolkit:v2.0.2

AC630/1N_bt_data_transfer_sdk_release_v2.1.0

Release level:A

Release time:2022Year3moon14day

Released versions:AC630/1N_bt_data_transfer_sdk_release_v2.1.0

releaseSDKModification Notes:

1. Fixed the problem that the production machine cannot be started.
2. Fixed the Bluetooth security vulnerability.
3. Added USB dongle support to connect 2 BLE Bluetooth HID devices.
4. Added AC632N+AD153 keyboard application example.
5. Added support for Lightning handshake charging function.
6. Mesh supports prompt tone playback and adds audio codec examples.
7. Added online live serial port upgrade function.
8. Added OTA upgrade support for IO lock function.
9. Added support for FCC tool to adjust BLE power.
10. AC632N optimizes BLE receiving sensitivity.
11. Fixed other issues.

Tool version:

- 1, One to Two:V2.26.1
- 2, One to Eight:V3.1.8
- 3, Test box:V1.2.6
- 4, Configuration tools:2.0.2
5. FW editing tools:2.0.47
- 6, Toolchain:v2.4.6
- 7, Toolkit:v2.0.0

AC630/1N_bt_data_transfer_sdk_release_v2.0.0

Release level:A

Release time:2021Year9moon15day

Released versions:AC630/1N_bt_data_transfer_sdk_release_v2.0.0

releaseSDKModification Notes:

1. Added support for D-version chip adaptation and fixed the issue of AC635N not booting up.
2. Added support for G version chip adaptation for AC636N.
3. AC638N adds support for Audio applications such as Mic and prompt tones.
4. Mesh application added support for AC635N series.
5. The Spble application adds support for Tuya protocol control development.
6. The Hid application adds a new voice remote control example that supports encoding, supporting AC637N and AC638N series.
7. The Standard Keyboard example adds support for USB mode applications.
8. The USB Dongle example adds support for EDR host search connection examples.
9. Organize the code structure of apps for Hid and Spble applications.
10. Arrange the BLE and EDR profiles in the COMMON directory to the apps directory.
11. Organize and use the board-level configuration file xxx_build_cfg.h file to generate ini file configuration items.
12. The SDK application user_cfg.c configures the maximum transmit power of BLE to be around the 0 dbm range by default.
13. The SDK application user_cfg.c can configure the maximum capacity limit of the VM.
14. Fixed other issues.

Tool version:

- 1, One to Two:V2.24.9
- 2, One to Eight:V3.0.41
- 3, Test box:V1.2.4.h
- 4, Configuration tools:1.0.28
5. FW editing tools:2.0.47
- 6, Toolchain:v2.4.5
- 7, Toolkit:v1.0.16

AC630/1N_bt_data_transfer_sdk_release_v1.0.0

Release level:B

Release time:2021Year6moon11day

Released versions:AC630/1N_bt_data_transfer_sdk_release_v1.0.0

releaseSDKModification Notes:

1. Added support for AC638N series in digital transmission applications.
2. When the AC638N series is not in wireless transmission mode, it can support running in crystal-free mode.
3. MESH application adds support for test box function and mobile phone OTA upgrade.
4. AC632N series added support for serial port upgrade.
5. Added 2.4G non-connection data sending and receiving example.
6. Added support for Tencent Lianlian protocol control development.
7. Fixed other issues.

Tool version:

- 1, One to Two:V2.24.3
- 2, One to Eight:V3.0.36
- 3, Test box:V1.2.4
- 4, Configuration tools:1.0.2
5. FW editing tools:2.0.45
- 6, Toolchain:v2.4.4
- 7, Toolkit:v1.0.16

AC630/1N_bt_data_transfer_sdk_release_v0.9.2

Release level:A

Release time:2021Year5moon14day

Released versions:AC630/1N_bt_data_transfer_sdk_release_v0.9.2

releaseSDKModification Notes:

1. Added support for USB sound card noise reduction function.
2. Add support for Tmall Genie triplet programming.
3. Added support for wireless upgrade to retain VM data.
4. Optimize the stability of BLE frequency deviation test of AC632N test box.
5. Fixed AC632N BLE Bluetooth parameter configuration.
6. Repair AC637N Bluetooth trim process.
7. Fixed the problem of disconnection when entering sniff from EDR in the previous version.
8. Fixed other issues.

Tool version:

- 1, One to Two:V2.24.0
- 2, One to Eight:V3.0.34
- 3, Test box:V1.2.4
- 4, Configuration tools:1.0.25
5. FW editing tools:2.0.44
- 6, Toolchain:v2.4.4
- 7, Toolkit:v1.0.16

AC630/1N_bt_data_transfer_sdk_release_v0.9.1

Release level:A

Release time:2021Year4moontwenty threeday

Released versions:AC630/1N_bt_data_transfer_sdk_release_v0.9.1

releaseSDKModification Notes:

1. Added RTC and touch button support for AC632N.
2. When the AC632N series is not in wireless transmission mode, it can support running in crystal-free mode.
3. Optimize the Bluetooth BLE multi-connection support example.
4. Optimize AC632N series voltage and system clock frequency adjustment.
5. Fixed the issue that the system timing would overflow when the system ran continuously for a long time.
6. Fixed other issues.

Tool version:

- 1, One to Two:V2.23.9
- 2, One to Eight:V3.0.33
- 3, Test box:V1.2.4
- 4, Configuration tools:1.0.25
5. FW editing tools:2.0.43
- 6, Toolchain:v2.4.4
- 7, Toolkit:v1.0.16

AC630/1N_bt_data_transfer_sdk_release_v0.9.0

Release level:B

Release time:2021Year4moon2day

Released versions:AC630/1N_bt_data_transfer_sdk_release_v0.9.0

releaseSDKModification Notes:

1. Added Bluetooth temperature adaptive adjustment for AC631N, AC632N, AC636N and AC637N series.
2. Added Bluetooth BLE multi-connection support example.
3. Added the serial port host computer AT_COM string mode control example.
4. Added IBEACON example.
5. Added USB suspend function.
6. Improve the sample function support for AC632N series chips.
7. Improve the functions of Tmall Genie devices.
8. Improve the operation of adjusting the photo position in the TikTok app.
9. Modify the MTU size of BLE configurable ATT.
10. Fixed other issues.

Tool version:

- 1, One to Two:V2.23.8
- 2, One to Eight:V3.0.33
- 3, Test box:V1.2.4
- 4, Configuration tools:1.0.25
5. FW editing tools:2.0.43
- 6, Toolchain:v2.4.2
- 7, Toolkit:v1.0.16

AC630/1N_bt_data_transfer_sdk_release_v0.8.0

Release level:C

Release time:2021Year3moon1day

Released versions:AC630/1N_bt_data_transfer_sdk_release_v0.8.0

releaseSDKModification Notes:

1. Added support for AC632N series chips.
2. AC635N, AC636N and AC637N series support running crystal-free system.
3. AC635N, AC636N and AC637N series support 16KHz Wtg prompt tone.
4. Added GameBox example for AC631N and AC632N.
5. Fixed other issues.

Tool version:

- 1, One to Two:V2.23.8
- 2, One to Eight:V3.0.33
- 3, Test box:V1.2.3
- 4, Configuration tools:1.0.25
5. FW editing tools:2.0.43
- 6, Toolchain:v2.4.0
- 7, Toolkit:v1.0.16

AC630/1N_bt_data_transfer_sdk_release_v0.7.0

Release level:B

Release time:2021Year1moon8day

Released versions:AC630/1N_bt_data_transfer_sdk_release_v0.7.0

releaseSDKModification Notes:

1. AC635N, AC636N and AC637N series AUDIO functions: codec, prompt tone, USB AUDIO and YES/NO wake-up word.
2. Optimization of AC635N series Bluetooth dual-mode standard keyboard.
3. Optimize power consumption and OSC printing issues of AC636N.
4. HID vibrato (keypage), improve the Bluetooth dual-mode automatic identification system function.
5. Fixed other issues.

Tool version:

- 1, One to Two:V2.23.2
- 2, One to Eight:V3.0.28
- 3, Test box:V1.2.3
- 4, Configuration tools:1.0.24
5. FW editing tools:2.0.42
- 6, Toolchain:v2.3.8
- 7, Toolkit:v1.0.16

AC630/1N_bt_data_transfer_sdk_release_v0.6.0

Release level:C

Release time:2020Year12moon15day

Released versions:AC630/1N_bt_data_transfer_sdk_release_v0.6.0

releaseSDKModification Notes:

1. Added audio support to the hid and spp_and_le projects for AC635N and AC636N series.
2. Added chip version control programming to the INI configuration files of AC636N and AC637N series.
3. Added touch button support for AC637N series.
4. Improve the BLE slave pairing management interface.
5. Fixed other issues.

Tool version:

- 1, One to Two:V2.23.1
- 2, One to Eight:V3.0.27
- 3, Test box:V1.2.2.f
- 4, Configuration tools:1.0.21
- 5.FWfEditing tools:2.0.37
- 6, Toolchain:v2.3.7
- 7, Toolkit:v1.0.16

AC630/1N_bt_data_transfer_sdk_release_v0.5.0

Release level:C

Release time:2020Year11moon05day

Released versions:AC630/1N_bt_data_transfer_sdk_release_v0.5.0

releaseSDKModification Notes:

1. Added support for AC637N series chips.
2. Add BLE slave pairing management.
3. Fixed the page turner IOS version support.
4. Optimize the pairing method of dongle and mouse.
5. Fixed other issues.

Tool version:

- 1, One to Two:V2.22.8
- 2, One to Eight:V3.0.24
- 3, Test box:V1.2.2
- 4, Configuration tools:1.0.21
- 5.FWfEditing tools:2.0.37
- 6, Toolchain:v2.3.7
- 7, Toolkit:v1.0.15

AC630/1N_bt_data_transfer_sdk_release_v0.4.0

Release level:C

Release time:2020Year09moon11day

Released versions:AC630/1N_bt_data_transfer_sdk_release_v0.4.0

releaseSDKModification Notes:

1. Added support for AC635N series chips.
2. Added support for MOUSE and DONGLE Bluetooth and 2.4G modes for AC636N series.
3. AT commands are added to control the BLE host.
4. HID adds Selfie, page turner and standard keyboard CASE.
5. Fixed other known issues.

Tool version:

- 1, One to Two:V2.22.2
- 2, One to Eight:V3.0.18
- 3, Test box:V1.2.1
- 4, Configuration tools:1.0.19
- 5.FWfEditing tools:2.0.34
- 6, Toolchain:v2.3.7
- 7, Toolkit:v1.0.15

AC630/1N_bt_data_transfer_sdk_release_v0.3.0

Release time:2020Year07moon09day

Released versions:AC630/1N_bt_data_transfer_sdk_release_v0.3.0

releaseSDKFunctional description:

- 1, Support Bluetooth dual-mode (Classic/LE) data transmission (protocol support: L2CAP/SDP/RFCOMM/SPP/ATT/SM)
- 2、 Support Bluetooth SIG Mesh Profile v1.0.1 function development (Relay/Proxy/Friend/Low Power)
- 3, Support Bluetooth dual-mode (Classic/LE) HID function (protocol support: L2CAP/SDP/ATT/SM/HOGP)
- 4, Support test box Bluetooth dual mode (Classic/LE) frequency deviation test and calibration
- 5, Support test box Bluetooth dual mode (Classic/LE) OTA upgrade
- 6, Support mobile phone (Android and IOS system) APP software Bluetooth (LE) OTA upgrade
7. Support AC696 series chips

releaseSDKModification Notes:

1. Added support for AC696 series chips.
2. Repair the RTC driver.
3. Support external PA.
4. Support Tmall Genie access.
5. Fixed other known BUGs.

Tool version:

- 1, One to Two:V2.21.9
- 2, One to Eight:V3.0.14
- 3, Test box:V1.2.1
- 4, Configuration tools:1.0.17
- 5.FWfEditing tools:2.0.31
- 6, Toolchain:v2.3.6
- 7, Toolkit:v1.0.15

AC630/1N_bt_data_transfer_sdk_release_v0.2.0

Release time:2020Year06moon19day

Released versions:AC630/1N_bt_data_transfer_sdk_release_v0.2.0

releaseSDKFunctional description:

- 1, Support Bluetooth dual-mode (Classic/LE) data transmission (protocol support: L2CAP/SDP/RFCOMM/SPP/ATT/SM)
- 2、 Support Bluetooth SIG Mesh Profile v1.0.1 function development (Relay/Proxy/Friend/Low Power)
- 3, Support Bluetooth dual-mode (Classic/LE) HID function (protocol support: L2CAP/SDP/ATT/SM/HOGP)
- 4, Support test box Bluetooth dual mode (Classic/LE) frequency deviation test and calibration
- 5, Support test box Bluetooth dual mode (Classic/LE) OTA upgrade
- 6, Support mobile phone Bluetooth (LE) OTA upgrade

releaseSDKModification Notes:

1. Added BluetoothATCommand and control,LEThe host function and the Server role of LE support active MTU request.
2. Bluetooth Mesh update node.
3. Added application exampleskeyfob(Selfie).
4. Fixed I/O setting issues, Bluetooth startup current, and LDO low power consumption optimization.
5. Repair the serial port driver.
6. Fixed other known BUGs.
7. Adjust the project file path to [apps]/board/[SoC], e.g. spp_and_le/board/bd29

Tool version:

- 1, One to Two:V2.21.8
- 2, One to Eight:V3.0.12
- 3, Test box:V1.2.1
- 4,EQtool:V3.1.6
- 5, Configuration tools:1.0.17
- 6.FWfEditing tools:2.3.4
- 7, Toolchain:v2.3.6
- 8, Toolkit:v1.0.15

AC630/1N_bt_data_transfer_sdk_release_v0.1.0

Release time:2020Year04moon20day

Released versions:AC630N_bt_data_transfer_sdk_release_v0.1.0

Release Notes:

- 1, Support Bluetooth dual-mode (Classic/LE) data transmission (protocol support: L2CAP/SDP/RFCOMM/SPP/ATT/SM)
- 2、 Support Bluetooth SIG Mesh Profile v1.0 function development (Normal node / Relay node / Proxy node)
- 3, Support Bluetooth dual-mode (Classic/LE) HID function (protocol support: L2CAP/SDP/ATT/SM/HOGP)
- 4, Support test box Bluetooth dual mode (Classic/LE) frequency deviation test and calibration
- 5, Support test box Bluetooth dual mode (Classic/LE) OTA upgrade
- 6, Support mobile phone Bluetooth (LE) OTA upgrade

Tool version:

- 1, One to Two:V2.21.1
- 2, One to Eight:V3.0.7
- 3, Test box:V1.1.9
- 4,EQtool:V3.1.5
- 5, Configuration tools:1.0.15
- 6.FWfEditing tools:2.3.4