

# *AC630/1N* Version Information

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## SDK level description

Category A: Problem fixed, customer must fix

Class B: performance optimization, customer can choose to repair

Class C: Added functionality, customer selectable

## AC630/1N\_bt\_data\_transfer\_sdk\_release\_v2.1.0

Post grade: A

Published: March 14, 2022

Release version: AC630/1N\_bt\_data\_transfer\_sdk\_release\_v2.1.0

Release SDK modification instructions:

1. Repair the problem that the production cannot be turned on.
2. Fix 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 lighting handshake charging function.
6. Mesh supports prompt sound playback and adds audio codec examples.
7. Added online live serial port upgrade function.
8. Added OTA upgrade support for IO latch function.
9. Added support for FCC tools to adjust BLE power.
10. AC632N optimizes BLE receiving sensitivity.
11. Fix other problems.

Tool version:

1. One for two: V2.26.1
2. One drag eight: V3.1.8
3. Test box: V1.2.6
4. Configuration tool: 2.0.2
5. FW editing tool: 2.0.47
6. Toolchain: v2.4.6
7. Toolkit: v2.0.0

## AC630/1N\_bt\_data\_transfer\_sdk\_release\_v2.0.0

Post grade: A

Published: September 15, 2021

Release version: AC630/1N\_bt\_data\_transfer\_sdk\_release\_v2.0.0

Release SDK modification instructions:

12. AC635N added support for D-version chip adaptation and fixed the problem of no boot patch.
13. AC636N added support for G version chip adaptation.
14. AC638N adds audio applications such as Mic and prompt tone.
15. Added support for AC635N series for Mesh applications.
16. Sppl application added support for Tuya protocol control development.
17. The Hid application adds an example of voice remote control that supports encoding, and supports AC637N and AC638N series.
18. The Standard Keyboard example adds support for usb mode applications.
19. Usb Dongle example adds support for EDR host search connection example.
20. Organize the apps code structure of Hid and Sppl applications.
21. Organize the profiles of BLE and EDR in the COMMON directory to the apps directory.
22. Arrange and use the board-level configuration file xxx\_build\_cfg.h file to generate the ini file configuration items.
23. The SDK application user\_cfg.c configures the maximum transmit power of BLE to be around the range of 0 dbm by default.
24. The SDK application user\_cfg.c can configure the limit of the maximum capacity of the VM.
25. Fix other problems.

Tool version:

1. One for two: V2.24.9
2. One drag eight: V3.0.41
3. Test box: V1.2.4.h
4. Configuration tool: 1.0.28
5. FW editing tool: 2.0.47
6. Toolchain: v2.4.5
7. Toolkit: v1.0.16

## AC630/1N\_bt\_data\_transfer\_sdk\_release\_v1.0.0

Post grade: **B**

Published: June 11, 2021

Release version: AC630/1N\_bt\_data\_transfer\_sdk\_release\_v1.0.0

Release SDK modification instructions:

26. Added support for AC638N series for digital applications.
27. AC638N series can support the crystal-free mode without using wireless transmission mode.
28. MESH application added support for test box function and mobile phone OTA upgrade.
29. AC632N series add support for serial port upgrade.
30. Add an example of 2.4G non-connection data sending and receiving.
31. Add support for Tencent Lianlian protocol control development.
32. Fix other problems.

Tool version:

1. One for two: V2.24.3
2. One drag eight: V3.0.36
3. Test box: V1.2.4
4. Configuration tool: 1.0.2
5. FW editing tool: 2.0.45
6. Toolchain: v2.4.4
7. Toolkit: v1.0.16

## AC630/1N\_bt\_data\_transfer\_sdk\_release\_v0.9.2

Post grade: A

Published: May 14, 2021

Release version: AC630/1N\_bt\_data\_transfer\_sdk\_release\_v0.9.2

Release SDK modification instructions:

33. Added support for USB sound card noise reduction.
34. Add Tmall Elf triple programming support.
35. Added over-the-air upgrades to preserve VM data support.
36. Optimized the stability of the BLE frequency offset test of the AC632N test box.
37. Repair AC632N BLE Bluetooth parameter configuration.
38. Repair AC637N Bluetooth trim process.
39. Fixed the disconnection problem of the previous version of EDR entering sniff.
40. Fix other issues.

Tool version:

1. One for two: V2.24.0
2. One drag eight: V3.0.34
3. Test box: V1.2.4
4. Configuration tool: 1.0.25
5. FW editing tool: 2.0.44
6. Toolchain: v2.4.4
7. Toolkit: v1.0.16

## AC630/1N\_bt\_data\_transfer\_sdk\_release\_v0.9.1

Post grade: A

Published: April 23, 2021

Release version: AC630/1N\_bt\_data\_transfer\_sdk\_release\_v0.9.1

Release SDK modification instructions:

41. AC632N adds RTC and touch button support.
42. AC632N series can support the crystal-free mode without using wireless transmission mode.
43. Optimized the example of Bluetooth BLE multi-connection support.
44. Optimize AC632N series voltage and system clock frequency adjustment.
45. Fix the problem that when the system runs continuously for a long time, the system timing will overflow.
46. Fix other issues.

Tool version:

1. One for two: V2.23.9
2. One drag eight: V3.0.33
3. Test box: V1.2.4
4. Configuration tool: 1.0.25
5. FW editing tool: 2.0.43
6. Toolchain: v2.4.4
7. Toolkit: v1.0.16



## AC630/1N\_bt\_data\_transfer\_sdk\_release\_v0.9.0

Post grade: **B**

Published: April 2, 2021

Release version: AC630/1N\_bt\_data\_transfer\_sdk\_release\_v0.9.0

Release SDK modification instructions:

47. Added AC631N, AC632N, AC636N and AC637N series Bluetooth temperature adaptive adjustment.
48. Added an example of Bluetooth BLE multi-connection support.
49. Added the control example of serial host computer AT\_COM string mode.
50. Added IBEACON example.
51. Added USB suspend function.
52. Improve AC632N series chip example function support.
53. Improve the function of Tmall Genie device.
54. Improve the Douyin device to adjust the photo position operation.
55. Modify the MTU size of BLE configurable ATT.
56. Fix other problems.

Tool version:

1. One for two: V2.23.8
2. One drag eight: V3.0.33
3. Test box: V1.2.4
4. Configuration tool: 1.0.25
5. FW editing tool: 2.0.43
6. Toolchain: v2.4.2
7. Toolkit: v1.0.16

## AC630/1N\_bt\_data\_transfer\_sdk\_release\_v0.8.0

Release grade: **C**

Published: March 1, 2021

Release version: AC630/1N\_bt\_data\_transfer\_sdk\_release\_v0.8.0

Release SDK modification instructions:

- 57. Added AC632N series chip support.
- 58. AC635N, AC636N and AC637N series support running free crystal oscillator system.
- 59. AC635N, AC636N and AC637N series support 16KHz Wtg tone.
- 60. AC631N, AC632N Add GameBox example.
- 61. Fix other problems.

Tool version:

- 1. One for two: V2.23.8
- 2. One drag eight: V3.0.33
- 3. Test box: V1.2.3
- 4. Configuration tool: 1.0.25
- 5. FW editing tool: 2.0.43
- 6. Toolchain: v2.4.0
- 7. Toolkit: v1.0.16

## AC630/1N\_bt\_data\_transfer\_sdk\_release\_v0.7.0

Release grade: B

Published: January 8, 2021

Release version: AC630/1N\_bt\_data\_transfer\_sdk\_release\_v0.7.0

Release SDK modification instructions:

62. AC635N, AC636N and AC637N series AUDIO function: codec, prompt tone, USB AUDIO and YES/NO wake word.
63. AC635N series Bluetooth dual-mode standard keyboard optimization.
64. AC636N optimizes power consumption and OSC printing issues.
65. HID vibrato device (keypage), improve the function of Bluetooth dual-mode automatic identification system.
66. Fix other problems.

Tool version:

1. One for two: V2.23.2
2. One drag eight: V3.0.28
3. Test box: V1.2.3
4. Configuration tool: 1.0.24
5. FW editing tool: 2.0.42
6. Toolchain: v2.3.8
7. Toolkit: v1.0.16

## AC630/1N\_bt\_data\_transfer\_sdk\_release\_v0.6.0

Release grade: C

Published: December 15, 2020

Release version: AC630/1N\_bt\_data\_transfer\_sdk\_release\_v0.6.0

Release SDK modification instructions:

- 67. Added support for audio in hid and spp\_and\_le projects of AC635N and AC636N series.
- 68. The INI configuration files of AC636N and AC637N series add chip version control programming.
- 69. AC637N series add touch key support.
- 70. Improve the BLE slave pairing management interface.
- 71. Fix other problems.

Tool version:

- 1. One for two: V2.23.1
- 2. One drag eight: V3.0.27
- 3. Test box: V1.2.2.f
- 4. Configuration tool: 1.0.21
- 5. Fw editing tool: 2.0.37
- 6. Toolchain: v2.3.7
- 7. Toolkit: v1.0.16

## AC630/1N\_bt\_data\_transfer\_sdk\_release\_v0.5.0

Release grade: C

Published: November 05, 2020

Release version: AC630/1N\_bt\_data\_transfer\_sdk\_release\_v0.5.0

Release SDK modification instructions:

72. Add AC637N series chips.
73. Add BLE slave pairing management.
74. Repair the IOS version support of the pager.
75. Optimize the pairing method of dongle and mouse.
76. Fix other problems.

Tool version:

1. One for two: V2.22.8
2. One drag eight: V3.0.24
3. Test box: V1.2.2
4. Configuration tool: 1.0.21
5. Fw editing tool: 2.0.37
6. Toolchain: v2.3.7
7. Toolkit: v1.0.15

## AC630/1N\_bt\_data\_transfer\_sdk\_release\_v0.4.0

Release grade: C

Published: September 11, 2020

Release version: AC630/1N\_bt\_data\_transfer\_sdk\_release\_v0.4.0

Release SDK modification instructions:

- 77. Add AC635N series chips.
- 78. Added support for MOUSE and DONGLE Bluetooth and 2.4G modes of AC636N series.
- 79. The AT command is added to control the BLE host.
- 80. HID adds Selfie, page turner, and standard keyboard CASE.
- 81. Fix other known issues.

Tool version:

- 1. One for two: V2.22.2
- 2. One drag eight: V3.0.18
- 3. Test box: V1.2.1
- 4. Configuration tool: 1.0.19
- 5. Fw editing tool: 2.0.34
- 6. Toolchain: v2.3.7
- 7. Toolkit: v1.0.15

## AC630/1N\_bt\_data\_transfer\_sdk\_release\_v0.3.0

Published: July 09, 2020

Release version: AC630/1N\_bt\_data\_transfer\_sdk\_release\_v0.3.0

Release SDK function description:

1. Support Bluetooth dual-mode (Classic/LE) data transparent 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 offset 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

Release SDK modification instructions:

82. Added support for AC696 series chips.
83. Repair RTC driver.
84. Support external PA.
85. Support Tmall Genie access.
86. Fix other known bugs.

Tool version:

1. One for two: V2.21.9
2. One drag eight: V3.0.14
3. Test box: V1.2.1
4. Configuration tool: 1.0.17
5. Fw editing tool: 2.0.31
6. Toolchain: v2.3.6
7. Toolkit: v1.0.15

## AC630/1N\_bt\_data\_transfer\_sdk\_release\_v0.2.0

Published: June 19, 2020

Release version: AC630/1N\_bt\_data\_transfer\_sdk\_release\_v0.2.0

Release SDK function description:

1. Support Bluetooth dual-mode (Classic/LE) data transparent 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 offset test and calibration
5. Support test box Bluetooth dual-mode (Classic/LE) OTA upgrade
6. Support mobile phone Bluetooth (LE) OTA upgrade

Release SDK modification instructions:

87. Added Bluetooth AT command control, LE host function, and LE 's Server role to support active request for MTU.
88. Bluetooth Mesh update node.
89. Added application example keyfob (Selfie).
90. Repair I/O settings, Bluetooth startup current, and LDO low power optimization.
91. Repair the serial port driver.
92. Fix other known bugs.
93. Adjust the project file path to [apps]/board/[SoC], eg spp\_and\_le/board/bd29

Tool version:

1. One for two: V2.21.8
2. One drag eight: V3.0.12
3. Test box: V1.2.1
4. EQ tool: V3.1.6
5. Configuration tool: 1.0.17
6. Fw editing tool: 2.3.4
7. Toolchain: v2.3.6
8. Toolkit: v1.0.15



## AC630/1N\_bt\_data\_transfer\_sdk\_release\_v0.1.0

Published: April 20, 2020

Release version: AC630N\_bt\_data\_transfer\_sdk\_release\_v0.1.0

Release Notes:

1. Support Bluetooth dual-mode (Classic/LE) data transparent 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 offset 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 for two: V2.21.1
2. One drag eight: V3.0.7
3. Test box: V1.1.9
4. EQ tool: V3.1.5
5. Configuration tool: 1.0.15
6. Fw editing tool: 2.3.4