https://espressif.github.io/esp-launchpad/?flashConfigURL=https://espressif.github.io/esp-matter/launchpad.toml


```
esptool.js
Serial port WebSerial VendorID 0x303a ProductID 0x1001
Connecting...
Detecting chip type... ESP32-C6
Chip is ESP32-C6 (revision 0)
Features: Wi-Fi 6,BT 5,IEEE802.15.4
Crystal is 40MHz
MAC: 40:4c:ca:49:74:e0
Uploading stub...
Running stub...
Stub running...
Changing baudrate to 921600
Changed
Manufacturer: 0
Device: 00
Detected flash size: undefined
Warning: Image file at 0x0 doesn't look like an image file, so not
changing any flash settings.
Compressed 1813200 bytes to 1039415...
Writing at 0x0... (1%)
Writing at 0x214aa... (3%)
Writing at 0x2eaa4... (4%)
Writing at 0x3c352... (6%)
Writing at 0x48150... (7%)
Writing at 0x50be5... (9%)
Writing at 0x55694... (10%)
Writing at 0x5c90f... (12%)
Writing at 0x63d8b... (14%)
Writing at 0x6a9b3... (15%)
Writing at 0x719cc... (17%)
Writing at 0x7745a... (18%)
Writing at 0x7f235... (20%)
Writing at 0x8543e... (21%)
Writing at 0x8b4f5... (23%)
```

```
Writing at 0x9154e... (25%)
Writing at 0x978bc... (26%)
Writing at 0x9d74e... (28%)
Writing at 0xa3e89... (29%)
Writing at 0xa9cdb... (31%)
Writing at 0xb1550... (32%)
Writing at 0xb79af... (34%)
Writing at 0xbd524... (35%)
Writing at 0xc3cd2... (37%)
Writing at 0xc9b22... (39%)
Writing at 0xcf66f... (40%)
Writing at 0xd5827... (42%)
Writing at 0xdbe68... (43%)
Writing at 0xe2396... (45%)
Writing at 0xe8601... (46%)
Writing at 0xee5fa... (48%)
Writing at 0xf4a1b... (50%)
Writing at 0xfaa04... (51%)
Writing at 0x100d1b... (53%)
Writing at 0x106fe6... (54%)
Writing at 0x10d2d2... (56%)
Writing at 0x11320c... (57%)
Writing at 0x1196d2... (59%)
Writing at 0x11fb2d... (60%)
Writing at 0x126542... (62%)
Writing at 0x12c885... (64%)
Writing at 0x132d65... (65%)
Writing at 0x138c54... (67%)
Writing at 0x13ec3c... (68%)
Writing at 0x1449c3... (70%)
Writing at 0x14b269... (71%)
Writing at 0x150b51... (73%)
Writing at 0x156c38... (75%)
Writing at 0x15c9af... (76%)
Writing at 0x162ad7... (78%)
Writing at 0x168c87... (79%)
Writing at 0x16eda5... (81%)
Writing at 0x175126... (82%)
Writing at 0x17af7f... (84%)
Writing at 0x180fbd... (85%)
Writing at 0x1867aa... (87%)
Writing at 0x18c330... (89%)
Writing at 0x19213e... (90%)
Writing at 0x197cf6... (92%)
```

```
Writing at 0x19e432... (93%)
Writing at 0x1a410b... (95%)
Writing at 0x1aa56d... (96%)
Writing at 0x1b01eb... (98%)
Writing at 0x1b5f03... (100%)
Wrote 1813200 bytes (1039415 compressed) at 0x0 in 11.83 seconds.
Leaving...
ESP-ROM:esp32c6-20220919
Build:Sep 19 2022
rst:0x15 (USB_UART_HPSYS),boot:0xc (SPI_FAST_FLASH_BOOT)
Saved PC:0x40800832
SPIWP:0xee
mode:DIO, clock div:2
load:0x40875720,leESP-ROM:esp32c6-20220919
Build:Sep 19 2022
rst:0x15 (USB_UART_HPSYS),boot:0xc (SPI_FAST_FLASH_BOOT)
Saved PC:0x400294ae
SPIWP:0xee
mode:DIO, clock div:2
load:0x40875720,len:0x18ec
load:0x4086c410,len:0xe60
load:0x4086e610,len:0x2f28
entry 0x4086c41a
I (23) boot: ESP-IDF c9763f6 2nd stage bootloader
I (23) boot: compile time Apr 11 2025 09:19:56
I (24) boot: chip revision: v0.0
I (26) boot: efuse block revision: v0.1
I (30) boot.esp32c6: SPI Speed      : 80MHz
I (35) boot.esp32c6: SPI Mode       : DIO
I (40) boot.esp32c6: SPI Flash Size : 4MB
I (44) boot: Enabling RNG early entropy source...
I (50) boot: Partition Table:
I (53) boot: ## Label            Usage          Type ST Offset
Length
I (61) boot:  0 esp_secure_cert  unknown          3f 06 0000d000
00002000
I (68) boot:  1 nvs              WiFi data        01 02 00010000
0000c000
I (76) boot:  2 nvs_keys         NVS keys         01 04 0001c000
00001000
I (83) boot:  3 otadata          OTA data         01 00 0001d000
00002000
I (91) boot:  4 phy_init         RF data          01 01 0001f000
00001000
```

```
I (98) boot:  5 ota_0            OTA app          00 10 00020000
001e0000
I (106) boot:  6 ota_1            OTA app          00 11 00200000
001e0000
I (113) boot:  7 fctry            WiFi data        01 02 003e0000
00006000
I (121) boot: End of partition table
I (125) boot: No factory image, trying OTA 0

I (130) esp_image: segment 0: paddr=00020020 vaddr=42140020
size=3fa24h (260644) map
I (188) esp_image: segment 1: paddr=0005fa4c vaddr=40800000
size=005cch (  1484) load
I (190) esp_image: segment 2: paddr=00060020 vaddr=42000020
size=13aaech (1288940) map
I (440) esp_image: segment 3: paddr=0019ab14 vaddr=408005cc
size=1bed8h (114392) load
I (465) esp_image: segment 4: paddr=001b69f4 vaddr=4081c4b0
size=040ach ( 16556) load
I (469) esp_image: segment 5: paddr=001baaa8 vaddr=50000000
size=00004h (     4) load
I (477) boot: Loaded app from partition at offset 0x20000
I (507) boot: Set actual ota_seq=1 in otadata[0]
I (508) boot: Disabling RNG early entropy source...
I (518) cpu_start: Unicore app
W (527) clk: esp_perip_clk_init() has not been implemented yet
I (534) cpu_start: Pro cpu start user code
I (534) cpu_start: cpu freq: 160000000 Hz
I (534) cpu_start: Application information:
I (537) cpu_start: Project name:     light
I (541) cpu_start: App version:      1.0
I (546) cpu_start: Compile time:     Apr 11 2025 09:19:50
I (552) cpu_start: ELF file SHA256:  a99c820c5...
I (557) cpu_start: ESP-IDF:          c9763f6
I (562) cpu_start: Min chip rev:     v0.0
I (567) cpu_start: Max chip rev:     v0.99
I (572) cpu_start: Chip rev:         v0.0
I (577) heap_init: Initializing. RAM available for dynamic
allocation:
I (584) heap_init: At 408339A0 len 00048C70 (291 KiB): RAM
I (590) heap_init: At 4087C610 len 00002F54 (11 KiB): RAM
I (596) heap_init: At 50000004 len 00003FE4 (15 KiB): RTCRAM
I (603) spi_flash: detected chip: generic
I (607) spi_flash: flash io: dio
```

```
W (611) spi_flash: Detected size(16384k) larger than the size in
the binary image header(4096k). Using the size in the binary image
header.
W (625) rmt(legacy): legacy driver is deprecated, please migrate
to `driver/rmt_tx.h` and/or `driver/rmt_rx.h`
I (636) sleep: Configure to isolate all GPIO pins in sleep state
I (642) sleep: Enable automatic switching of GPIO sleep
configuration
I (649) coexist: coex firmware version: 27d8387
I (654) coexist: coexist rom version 5b8dcfa
I (659) main_task: Started on CPU0
I (659) main_task: Calling app_main()
I (669) led_driver_ws2812: Initializing light driver
I (679) button: IoT Button Version: 3.5.0
I (679) gpio: GPIO[9]| InputEn: 1| OutputEn: 0| OpenDrain: 0|
Pullup: 1| Pulldown: 0| Intr:0
I (689) app_main: Light created with endpoint_id 1
I (689) pp: pp rom version: 5b8dcfa
I (689) net80211: net80211 rom version: 5b8dcfa
I (709) wifi:wifi driver task: 4083ff58, prio:23, stack:6656,
core=0
I (719) wifi:wifi firmware version: 82f54d2
I (719) wifi:wifi certification version: v7.0
I (719) wifi:config NVS flash: enabled
I (719) wifi:config nano formating: disabled
I (719) wifi:mac_version:HAL_MAC_ESP32AX_761,ut_version:N
I (729) wifi:Init data frame dynamic rx buffer num: 32
I (729) wifi:Init static rx mgmt buffer num: 5
I (739) wifi:Init management short buffer num: 32
I (739) wifi:Init dynamic tx buffer num: 32
I (739) wifi:Init static tx FG buffer num: 2
I (749) wifi:Init static rx buffer size: 1700
I (749) wifi:Init static rx buffer num: 10
I (759) wifi:Init dynamic rx buffer num: 32
I (759) wifi_init: rx ba win: 6
I (759) wifi_init: tcpip mbox: 32
I (769) wifi_init: udp mbox: 6
I (769) wifi_init: tcp mbox: 6
I (769) wifi_init: tcp tx win: 5760
I (779) wifi_init: tcp rx win: 5760
I (779) wifi_init: tcp mss: 1440
I (789) wifi_init: WiFi IRAM OP enabled
I (789) wifi_init: WiFi RX IRAM OP enabled
I (809) chip[DL]: NVS set: chip-counters/reboot-count = 1 (0x1)
```

```
I (809) chip[DL]: NVS set: chip-config/unique-id =
"92C641B9E7A266E6"
I (809) chip[DL]: Real time clock set to 946684800 (0100/00/01
00:00:00 UTC)
I (819) BLE_INIT: Using main XTAL as clock source
I (829) BLE_INIT: ble controller commit:[7491a85]
I (829) BLE_INIT: Bluetooth MAC: 40:4c:ca:49:74:e2
I (829) phy_init: phy_version 310,dde1ba9,Jun  4 2024,16:38:11

W (839) phy_init: failed to load RF calibration data (0x1102),
falling back to full calibration
W (889) phy_init: saving new calibration data because of checksum
failure, mode(2)
I (899) phy: libbtbb version: 04952fd, Jun  4 2024, 16:38:26
I (909) NimBLE: GAP procedure initiated: stop advertising.

I (909) NimBLE: Failed to restore IRKs from store; status=8

I (909) CHIP[DL]: BLE host-controller synced
I (1419) chip[DL]: Starting ESP WiFi layer
W (1419) wifi:ACK_TAB0   :0x   90a0b, QAM16:0x9 (24Mbps), QPSK:0xa
(12Mbps), BPSK:0xb (6Mbps)
W (1419) wifi:CTS_TAB0   :0x   90a0b, QAM16:0x9 (24Mbps), QPSK:0xa
(12Mbps), BPSK:0xb (6Mbps)
W (1429) wifi:(agc)0x600a7128:0xd21b79f0, min.avgNF:0xce-
>0xd2(dB), RCalCount:0x1b6, min.RRssi:0x9f0(-97.00)
W (1439) wifi:(TB)WDEV_PWR_TB_MCS0:19
W (1439) wifi:(TB)WDEV_PWR_TB_MCS1:19
W (1439) wifi:(TB)WDEV_PWR_TB_MCS2:19
W (1449) wifi:(TB)WDEV_PWR_TB_MCS3:19
W (1449) wifi:(TB)WDEV_PWR_TB_MCS4:19
W (1449) wifi:(TB)WDEV_PWR_TB_MCS5:19
W (1459) wifi:(TB)WDEV_PWR_TB_MCS6:18
W (1459) wifi:(TB)WDEV_PWR_TB_MCS7:18
W (1459) wifi:(TB)WDEV_PWR_TB_MCS8:17
W (1469) wifi:(TB)WDEV_PWR_TB_MCS9:15
W (1469) wifi:(TB)WDEV_PWR_TB_MCS10:15
W (1469) wifi:(TB)WDEV_PWR_TB_MCS11:15
I (1479) wifi:11ax coex: WDEVAX_PTI0(0x55777555),
WDEVAX_PTI1(0x00003377).

I (1479) wifi:mode : sta (40:4c:ca:49:74:e0)
I (1489) wifi:enable tsf
```

```
I (1489) chip[DL]: Posting ESPSystemEvent: Wifi Event with eventId
: 43
W (1499) wifi:Haven't to connect to a suitable AP now!
I (1499) chip[DL]: Done driving station state, nothing else to
do...
W (1509) wifi:Haven't to connect to a suitable AP now!
I (1509) chip[DL]: Posting ESPSystemEvent: Wifi Event with eventId
: 2
I (1519) chip[DL]: Done driving station state, nothing else to
do...
I (1529) chip[SVR]: Initializing subscription resumption
storage...
I (1539) chip[SVR]: Server initializing...
I (1539) chip[TS]: Last Known Good Time: [unknown]
I (1539) chip[TS]: Setting Last Known Good Time to firmware build
time 2023-10-14T01:16:48
I (1549) chip[DMG]: AccessControl: initializing
I (1559) chip[DMG]: Examples::AccessControlDelegate::Init
I (1559) chip[DMG]: AccessControl: setting
I (1569) chip[DMG]: DefaultAclStorage: initializing
I (1569) chip[DMG]: DefaultAclStorage: 0 entries loaded
I (1579) chip[SVR]: WARNING: mTestEventTriggerDelegate is null
I (1589) chip[ZCL]: Using ZAP configuration...
I (1589) esp_matter_cluster: Cluster plugin init common callback
I (1599) chip[DMG]: AccessControlCluster: initializing
I (1609) chip[ZCL]: WRITE ERR: ep 0 clus 0x0000_0030 attr
0x0000_0000 not supported
I (1609) chip[ZCL]: Initiating Admin Commissioning cluster.
I (1619) chip[DIS]: Updating services using commissioning mode 1
I (1629) chip[DIS]: CHIP minimal mDNS started advertising.
I (1629) chip[DIS]: Advertise commission parameter vendorID=65521
productID=32768 discriminator=3840/15 cm=1 cp=0
I (1639) chip[DIS]: CHIP minimal mDNS configured as
'Commissionable node device'; instance name: 21FBA102AB73B90C.
I (1649) chip[DIS]: mDNS service published: _matterc._udp
I (1659) chip[IN]: CASE Server enabling CASE session setups
I (1669) chip[SVR]: Joining Multicast groups
I (1669) chip[SVR]: Server Listening...
I (1679) esp_matter_core: Dynamic endpoint 0 added
I (1679) esp_matter_attribute: ********** R : Endpoint 0x0001's
Cluster 0x00000003's Attribute 0x00000001 is 1 **********
I (1689) esp_matter_attribute: ********** R : Endpoint 0x0001's
Cluster 0x00000004's Attribute 0x00000000 is 128 **********
```

```
I (1699) esp_matter_attribute: ********** R : Endpoint 0x0001's
Cluster 0x00000004's Attribute 0x0000FFFC is 1 **********
I (1719) esp_matter_attribute: ********** R : Endpoint 0x0001's
Cluster 0x00000006's Attribute 0x0000FFFC is 1 **********
I (1729) esp_matter_attribute: ********** R : Endpoint 0x0001's
Cluster 0x00000006's Attribute 0x00004003 is null **********
I (1739) esp_matter_attribute: ********** R : Endpoint 0x0001's
Cluster 0x00000006's Attribute 0x00000000 is 1 **********
I (1749) esp_matter_attribute: ********** R : Endpoint 0x0001's
Cluster 0x00000006's Attribute 0x00000000 is 1 **********
I (1759) chip[ZCL]: Endpoint 1 On/off already set to new value
I (1769) esp_matter_attribute: ********** R : Endpoint 0x0001's
Cluster 0x00000008's Attribute 0x00000002 is 1 **********
I (1779) esp_matter_attribute: ********** R : Endpoint 0x0001's
Cluster 0x00000008's Attribute 0x00000003 is 254 **********
I (1789) esp_matter_attribute: ********** R : Endpoint 0x0001's
Cluster 0x00000008's Attribute 0x0000FFFC is 3 **********
I (1799) esp_matter_attribute: ********** R : Endpoint 0x0001's
Cluster 0x00000008's Attribute 0x00000000 is 64 **********
I (1819) esp_matter_attribute: ********** R : Endpoint 0x0001's
Cluster 0x00000008's Attribute 0x00004000 is 64 **********
I (1829) esp_matter_attribute: ********** R : Endpoint 0x0001's
Cluster 0x00000008's Attribute 0x00000000 is 64 **********
I (1839) esp_matter_attribute: ********** R : Endpoint 0x0001's
Cluster 0x00000300's Attribute 0x00004010 is null **********
I (1849) esp_matter_core: Dynamic endpoint 1 added
I (1859) chip[DL]: WIFI_EVENT_STA_START
W (1859) wifi:Haven't to connect to a suitable AP now!
I (1869) chip[DL]: Done driving station state, nothing else to
do...
I (1869) chip[DL]: Configuring CHIPoBLE advertising (interval 25
ms, connectable)
I (1879) NimBLE: GAP procedure initiated: advertise;
I (1889) NimBLE: disc_mode=2
I (1889) NimBLE:  adv_channel_map=0 own_addr_type=1
adv_filter_policy=0 adv_itvl_min=40 adv_itvl_max=40
I (1899) NimBLE:

I (1909) chip[DL]: CHIPoBLE advertising started
I (1909) app_main: Commissioning window opened
I (1919) esp_matter_core: Cannot find minimum unused endpoint_id,
try to find in the previous namespace
I (1919) esp_matter_core: Failed to open node namespace
I (1929) led_driver_ws2812: led set r:0, g:0, b:0
```

```
I (1939) led_driver_ws2812: led set r:0, g:0, b:0
I (1939) led_driver_ws2812: led set r:63, g:51, b:40
> I (2459) main_task: Returned from app_main()
I (18789) chip[DL]: BLE GAP connection established (con 0)
I (18799) chip[DL]: CHIPoBLE advertising stopped
I (19529) CHIP[DL]: Write request received for CHIPoBLE RX
characteristic con 0 16
I (19529) chip[BLE]: local and remote recv window sizes = 5
I (19539) chip[BLE]: selected BTP version 4
I (19539) chip[BLE]: using BTP fragment sizes rx 244 / tx 244.

I (19649) chip[DL]: Write request/command received for CHIPoBLE TX
CCCD characteristic (con 0 ) indicate = 1
I (19649) chip[DL]: CHIPoBLE subscribe received
I (19649) NimBLE: GATT procedure initiated: indicate;
I (19659) NimBLE: att_handle=18

I (19749) chip[DL]: Confirm received for CHIPoBLE TX
characteristic indication (con 0) status= 14
I (19749) CHIP[DL]: Write request received for CHIPoBLE RX
characteristic con 0 16
I (19759) chip[EM]: >>> [E:19401r S:0 M:147246109] (U) Msg RX from
0:0D607928D15E3E69 [0000] to 0000000000000000 --- Type 0000:20
(SecureChannel:PBKDFParamRequest) (B:98)
I (19779) chip[EM]: <<< [E:19401r S:0 M:57700028] (U) Msg TX from
0000000000000000 to 0:0D607928D15E3E69 [0000] [BLE] --- Type
0000:21 (SecureChannel:PBKDFParamResponse) (B:154)
I (19789) NimBLE: GATT procedure initiated: indicate;
I (19799) NimBLE: att_handle=18

I (19799) chip[SVR]: Commissioning session establishment step
started
I (19889) chip[DL]: Confirm received for CHIPoBLE TX
characteristic indication (con 0) status= 14
I (19889) CHIP[DL]: Write request received for CHIPoBLE RX
characteristic con 0 16
I (19909) chip[EM]: >>> [E:19401r S:0 M:147246110] (U) Msg RX from
0:0D607928D15E3E69 [0000] to 0000000000000000 --- Type 0000:22
(SecureChannel:PASE_Pake1) (B:92)
I (19979) chip[EM]: <<< [E:19401r S:0 M:57700029] (U) Msg TX from
0000000000000000 to 0:0D607928D15E3E69 [0000] [BLE] --- Type
0000:23 (SecureChannel:PASE_Pake2) (B:127)
I (19989) NimBLE: GATT procedure initiated: indicate;
I (19989) NimBLE: att_handle=18
```

```
I (20089) chip[DL]: Confirm received for CHIPoBLE TX
characteristic indication (con 0) status= 14
I (20089) CHIP[DL]: Write request received for CHIPoBLE RX
characteristic con 0 16
I (20099) chip[EM]: >>> [E:19401r S:0 M:147246111] (U) Msg RX from
0:0D607928D15E3E69 [0000] to 0000000000000000 --- Type 0000:24
(SecureChannel:PASE_Pake3) (B:59)
I (20119) chip[EM]: <<< [E:19401r S:0 M:57700030] (U) Msg TX from
0000000000000000 to 0:0D607928D15E3E69 [0000] [BLE] --- Type
0000:40 (SecureChannel:StatusReport) (B:30)
I (20129) NimBLE: GATT procedure initiated: indicate;
I (20139) NimBLE: att_handle=18

I (20139) chip[SC]: SecureSession[0x40823970, LSID:2706]: State
change 'kEstablishing' --> 'kActive'
I (20149) chip[SVR]: Commissioning completed session establishment
step
I (20159) chip[DIS]: Updating services using commissioning mode 0
I (20159) chip[DIS]: CHIP minimal mDNS started advertising.
I (20179) chip[SVR]: Device completed Rendezvous process
I (20179) app_main: Commissioning session started
I (20189) app_main: Commissioning window closed
I (20229) chip[DL]: Confirm received for CHIPoBLE TX
characteristic indication (con 0) status= 14
I (20239) CHIP[DL]: Write request received for CHIPoBLE RX
characteristic con 0 16
I (20249) chip[EM]: >>> [E:19402r S:2706 M:17199034] (S) Msg RX
from 0:FFFFFFFB00000000 [0000] to 0000000000000000 --- Type
0001:02 (IM:ReadRequest) (B:51)
I (20259) chip[EM]: <<< [E:19402r S:2706 M:81931866] (S) Msg TX
from 0000000000000000 to 0:FFFFFFFB00000000 [0000] [BLE] --- Type
0001:05 (IM:ReportData) (B:86)
I (20279) NimBLE: GATT procedure initiated: indicate;
I (20279) NimBLE: att_handle=18

I (20379) chip[DL]: Confirm received for CHIPoBLE TX
characteristic indication (con 0) status= 14
I (20379) CHIP[DL]: Write request received for CHIPoBLE RX
characteristic con 0 16
I (20399) chip[EM]: >>> [E:19403r S:2706 M:17199035] (S) Msg RX
from 0:FFFFFFFB00000000 [0000] to 0000000000000000 --- Type
0001:02 (IM:ReadRequest) (B:52)
```

```
I (20409) chip[EM]: <<< [E:19403r S:2706 M:81931867] (S) Msg TX
from 0000000000000000 to 0:FFFFFFFB00000000 [0000] [BLE] --- Type
0001:05 (IM:ReportData) (B:67)
I (20419) NimBLE: GATT procedure initiated: indicate;
I (20419) NimBLE: att_handle=18

I (20529) chip[DL]: Confirm received for CHIPoBLE TX
characteristic indication (con 0) status= 14
I (20529) CHIP[DL]: Write request received for CHIPoBLE RX
characteristic con 0 16


I (20539) chip[EM]: >>> [E:19404r S:2706 M:17199036] (S) Msg RX
from 0:FFFFFFFB00000000 [0000] to 0000000000000000 --- Type
0001:02 (IM:ReadRequest) (B:51)
I (20559) chip[EM]: <<< [E:19404r S:2706 M:81931868] (S) Msg TX
from 0000000000000000 to 0:FFFFFFFB00000000 [0000] [BLE] --- Type
0001:05 (IM:ReportData) (B:67)
I (20569) NimBLE: GATT procedure initiated: indicate;
I (20569) NimBLE: att_handle=18

I (20669) chip[DL]: Confirm received for CHIPoBLE TX
characteristic indication (con 0) status= 14
I (20719) CHIP[DL]: Write request received for CHIPoBLE RX
characteristic con 0 16
I (20729) chip[EM]: >>> [E:19405r S:2706 M:17199037] (S) Msg RX
from 0:FFFFFFFB00000000 [0000] to 0000000000000000 --- Type
0001:02 (IM:ReadRequest) (B:51)
I (20739) chip[EM]: <<< [E:19405r S:2706 M:81931869] (S) Msg TX
from 0000000000000000 to 0:FFFFFFFB00000000 [0000] [BLE] --- Type
0001:05 (IM:ReportData) (B:67)
I (20749) NimBLE: GATT procedure initiated: indicate;
I (20759) NimBLE: att_handle=18

I (20819) chip[DL]: Confirm received for CHIPoBLE TX
characteristic indication (con 0) status= 14
I (20819) CHIP[DL]: Write request received for CHIPoBLE RX
characteristic con 0 16
I (20829) chip[EM]: >>> [E:19406r S:2706 M:17199038] (S) Msg RX
from 0:FFFFFFFB00000000 [0000] to 0000000000000000 --- Type
0001:02 (IM:ReadRequest) (B:51)
I (20849) chip[EM]: <<< [E:19406r S:2706 M:81931870] (S) Msg TX
from 0000000000000000 to 0:FFFFFFFB00000000 [0000] [BLE] --- Type
0001:05 (IM:ReportData) (B:66)
```

```
I (20859) NimBLE: GATT procedure initiated: indicate;
I (20859) NimBLE: att_handle=18

I (20969) chip[DL]: Confirm received for CHIPoBLE TX
characteristic indication (con 0) status= 14
I (20969) CHIP[DL]: Write request received for CHIPoBLE RX
characteristic con 0 16
I (20979) chip[EM]: >>> [E:19407r S:2706 M:17199039] (S) Msg RX
from 0:FFFFFFFB00000000 [0000] to 0000000000000000 --- Type
0001:02 (IM:ReadRequest) (B:51)


I (20999) chip[EM]: <<< [E:19407r S:2706 M:81931871] (S) Msg TX
from 0000000000000000 to 0:FFFFFFFB00000000 [0000] [BLE] --- Type
0001:05 (IM:ReportData) (B:66)
I (21009) NimBLE: GATT procedure initiated: indicate;
I (21009) NimBLE: att_handle=18

I (21109) chip[DL]: Confirm received for CHIPoBLE TX
characteristic indication (con 0) status= 14
I (21109) CHIP[DL]: Write request received for CHIPoBLE RX
characteristic con 0 16
I (21129) chip[EM]: >>> [E:19408r S:2706 M:17199040] (S) Msg RX
from 0:FFFFFFFB00000000 [0000] to 0000000000000000 --- Type
0001:02 (IM:ReadRequest) (B:51)
I (21139) chip[EM]: <<< [E:19408r S:2706 M:81931872] (S) Msg TX
from 0000000000000000 to 0:FFFFFFFB00000000 [0000] [BLE] --- Type
0001:05 (IM:ReportData) (B:66)
I (21149) NimBLE: GATT procedure initiated: indicate;
I (21149) NimBLE: att_handle=18

I (21259) chip[DL]: Confirm received for CHIPoBLE TX
characteristic indication (con 0) status= 14
I (23739) CHIP[DL]: Write request received for CHIPoBLE RX
characteristic con 0 16
I (24329) CHIP[DL]: Write request received for CHIPoBLE RX
characteristic con 0 16
I (24329) chip[EM]: >>> [E:19409r S:2706 M:17199041] (S) Msg RX
from 0:FFFFFFFB00000000 [0000] to 0000000000000000 --- Type
0001:08 (IM:InvokeCommandRequest) (B:62)
I (24349) esp_matter_command: Received command 0x00000002 for
endpoint 0x0000's cluster 0x0000003E
I (24359) chip[ZCL]: OpCreds: Certificate Chain request received
for DAC
```

```
I (24369) chip[EM]: <<< [E:19409r S:2706 M:81931873] (S) Msg TX
from 0000000000000000 to 0:FFFFFFFB00000000 [0000] [BLE] --- Type
0001:09 (IM:InvokeCommandResponse) (B:557)
I (24379) NimBLE: GATT procedure initiated: indicate;
I (24379) NimBLE: att_handle=18

I (24479) chip[DL]: Confirm received for CHIPoBLE TX
characteristic indication (con 0) status= 14
I (24479) NimBLE: GATT procedure initiated: indicate;
I (24489) NimBLE: att_handle=18


I (24569) chip[DL]: Confirm received for CHIPoBLE TX
characteristic indication (con 0) status= 14
I (24569) NimBLE: GATT procedure initiated: indicate;
I (24589) NimBLE: att_handle=18

I (24669) chip[DL]: Confirm received for CHIPoBLE TX
characteristic indication (con 0) status= 14
I (24669) CHIP[DL]: Write request received for CHIPoBLE RX
characteristic con 0 16
I (24689) chip[EM]: >>> [E:19410r S:2706 M:17199042] (S) Msg RX
from 0:FFFFFFFB00000000 [0000] to 0000000000000000 --- Type
0001:02 (IM:ReadRequest) (B:51)
I (24699) chip[EM]: <<< [E:19410r S:2706 M:81931874] (S) Msg TX
from 0000000000000000 to 0:FFFFFFFB00000000 [0000] [BLE] --- Type
0001:05 (IM:ReportData) (B:86)
I (24709) NimBLE: GATT procedure initiated: indicate;
I (24709) NimBLE: att_handle=18

I (24819) chip[DL]: Confirm received for CHIPoBLE TX
characteristic indication (con 0) status= 14
I (24819) CHIP[DL]: Write request received for CHIPoBLE RX
characteristic con 0 16
I (24829) chip[EM]: >>> [E:19411r S:2706 M:17199043] (S) Msg RX
from 0:FFFFFFFB00000000 [0000] to 0000000000000000 --- Type
0001:02 (IM:ReadRequest) (B:52)
I (24849) chip[EM]: <<< [E:19411r S:2706 M:81931875] (S) Msg TX
from 0000000000000000 to 0:FFFFFFFB00000000 [0000] [BLE] --- Type
0001:05 (IM:ReportData) (B:67)
I (24859) NimBLE: GATT procedure initiated: indicate;
I (24859) NimBLE: att_handle=18
```

```
I (24959) chip[DL]: Confirm received for CHIPoBLE TX
characteristic indication (con 0) status= 14
I (25379) app_driver: Toggle button pressed
I (25379) esp_matter_attribute: ********** R : Endpoint 0x0001's
Cluster 0x00000006's Attribute 0x00000000 is 1 **********
I (25399) esp_matter_attribute: ********** W : Endpoint 0x0001's
Cluster 0x00000006's Attribute 0x00000000 is 0 **********
I (25409) led_driver_ws2812: led set r:0, g:0, b:0
I (27449) CHIP[DL]: Write request received for CHIPoBLE RX
characteristic con 0 16
I (29949) NimBLE: GATT procedure initiated: indicate;
I (29949) NimBLE: att_handle=18

I (30029) chip[DL]: Confirm received for CHIPoBLE TX
characteristic indication (con 0) status= 14
I (33539) chip[DL]: Write request/command received for CHIPoBLE TX
CCCD characteristic (con 0 ) indicate = 0
I (33539) chip[DL]: CHIPoBLE unsubscribe received
I (33549) chip[DL]: BLE GAP connection terminated (con 0 reason
0x213)
I (33539) chip[BLE]: Releasing end point's BLE connection back to
application.
I (33569) chip[DL]: Closing BLE GATT connection (con 0)
E (33579) chip[DL]: ble_gap_terminate() failed: Error
CHIP:0x00000048
I (33579) esp_matter_core: BLE Disconnected
I (80179) chip[FS]: Fail-safe timer expired
E (80179) chip[SVR]: Failsafe timer expired
I (80179) chip[SC]: SecureSession[0x40823970, LSID:2706]: State
change 'kActive' --> 'kPendingEviction'
E (80189) chip[SVR]: Commissioning failed (attempt 1): 32
I (80199) chip[DIS]: Updating services using commissioning mode 1
I (80199) chip[DIS]: CHIP minimal mDNS started advertising.
I (80209) chip[DIS]: Advertise commission parameter vendorID=65521
productID=32768 discriminator=3840/15 cm=1 cp=0
I (80219) chip[DIS]: CHIP minimal mDNS configured as
'Commissionable node device'; instance name: 21FBA102AB73B90C.
I (80229) chip[DIS]: mDNS service published: _matterc._udp
E (80239) chip[ZCL]: OpCreds: Got FailSafeTimerExpired
E (80239) chip[ZCL]: OpCreds: Proceeding to FailSafeCleanup on
fail-safe expiry!
I (80249) chip[TS]: Pending Last Known Good Time: 2023-10-
14T01:16:48
```

```
I (80259) chip[TS]: Previous Last Known Good Time: 2023-10-
14T01:16:48
I (80259) chip[TS]: Reverted Last Known Good Time to previous
value
I (80269) esp_matter_attribute: ********** R : Endpoint 0x0000's
Cluster 0x00000030's Attribute 0x00000000 is 0 **********
I (80279) app_main: Commissioning failed, fail safe timer expired
I (80299) chip[FS]: Fail-safe cleanly disarmed
I (80299) chip[DL]: Configuring CHIPoBLE advertising (interval 25
ms, connectable)
I (80309) NimBLE: GAP procedure initiated: advertise;
I (80309) NimBLE: disc_mode=2
I (80309) NimBLE:  adv_channel_map=0 own_addr_type=1
adv_filter_policy=0 adv_itvl_min=40 adv_itvl_max=40
I (80319) NimBLE:

I (80329) chip[DL]: CHIPoBLE advertising started
I (80329) app_main: Commissioning window opened
I (110199) chip[DL]: bleAdv Timeout : Start slow advertisement
I (110199) chip[DL]: Configuring CHIPoBLE advertising (interval
500 ms, connectable)
I (110209) chip[DL]: Device already advertising, stop active
advertisement and restart
I (110209) NimBLE: GAP procedure initiated: stop advertising.

I (110219) NimBLE: GAP procedure initiated: advertise;
I (110229) NimBLE: disc_mode=2
I (110239) NimBLE:  adv_channel_map=0 own_addr_type=1
adv_filter_policy=0 adv_itvl_min=800 adv_itvl_max=800
I (110249) NimBLE:
```