XPass D2

RELEASE NOTES

Version 1.8.5

English
EN 301.00.XPD2

suprema
SECURITY & BIOMETRICS

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Firmware Version 1.8.5 (Build No. 1.8.5_260728)

Release | 2026-07-30

Caution

Devices with the new BLE chip cannot downgrade to a lower version after upgrading the firmware to v1.7.0 or higher. Devices with existing BLE chips can be downgraded to a lower version.

For more information, check the serial number of the device and contact the Suprema.

Firmware Repackaging

Firmware Version 1.8.4 (Build No. 1.8.4_260721)

Release | 2026-07-23

> **Caution**
> Devices with the new BLE chip cannot downgrade to a lower version after upgrading the firmware to v1.7.0 or higher. Devices with existing BLE chips can be downgraded to a lower version.
>
> For more information, check the serial number of the device and contact the Suprema.

New Features and Improvements

1. Improved BLE stability.

Firmware Version 1.8.3 (Build No. 1.8.3_260420)

Release | 2026-04-20

> **Caution**
> Devices with the new BLE chip cannot downgrade to a lower version after upgrading the firmware to v1.7.0 or higher. Devices with existing BLE chips can be downgraded to a lower version.
>
> For more information, check the serial number of the device and contact the Suprema.

New Features and Improvements

1. Supported EV2 Secure Messaging authentication and issuance for DESFire EV2 and EV3 cards.

Firmware Version 1.8.2 (Build No. 1.8.2_250916)

Release | 2025-09-22

Caution

Devices with the new BLE chip cannot downgrade to a lower version after upgrading the firmware to v1.7.0 or higher. Devices with existing BLE chips can be downgraded to a lower version.

For more information, check the serial number of the device and contact the Suprema.

Firmware Repackaging

Firmware Version 1.8.1 (Build No. 1.8.1_250520)

Release | 2025-05-21

> **Caution**
> Devices with the new BLE chip cannot downgrade to a lower version after upgrading the firmware to v1.7.0 or higher. Devices with existing BLE chips can be downgraded to a lower version.
>
> For more information, check the serial number of the device and contact the Suprema.

New Features and Improvements

1. Supports SL1, SL3, and SL1/SL3 Mix Mode for security level compatibility with MIFARE Plus EV1 cards.
   - SL1: Compatible mode with MIFARE Classic
   - SL3: Advanced security mode based on AES
2. Added identification code to support recognition of the latest cards.
   - DESFire EV3

Bug Fixes

1. Custom smart cards with the **DESFire Advanced** option enabled fail to be recognized. Affects version: 1.7.1
2. Authentication fails with a 'period expired' message when using a smart card issued with a visual face included. Affects version: 1.0.0

Firmware Version 1.8.0 (Build No. 1.8.0_241015)

Release | 2024-10-15

> **Caution**
> Devices with the new BLE chip cannot downgrade to a lower version after upgrading the firmware to v1.7.0 or higher. Devices with existing BLE chips can be downgraded to a lower version.
>
> For more information, check the serial number of the device and contact the Suprema.

New Features and Improvements

1. Supports for firmware upgrade of BLE chip devices via the Device Manager application.
2. Improved RS-485 communication quality.

Bug Fixes

1. When using the BS2_GetDeviceCapabilities function in the SDK to get information supported by the device, the CustomClassicPlus and CustomDesFireEV1 are displayed as False though the device supports custom smart cards Affects version: 1.7.1
2. When authenticating an HID Prox card continuously, intermittently outputs an incorrect value. Affects version: 1.0.0
3. When the **Input card ID from keypad** option is enabled, there is an issue where the card ID value recorded in the event log differs from the entered value when an unassigned card ID is input using the keypad. Affects version: 1.0.0
4. After a firmware upgrade, authentication failure occurs with the previously used cards. Affects version: 1.7.1
5. When running the Device Manager application v1.1.8 on certain iOS, the device does not connect. Affects version: 1.0.0
6. When the device is connected to a 3rd party control panel via OSDP, the device does not receive a response from the 3rd party control panel. Affects version: 1.0.0
7. When the Micom firmware of the device is upgraded first in BioStar 2, followed by the upgrade of the new BLE firmware, the device cannot reconnect to the Device Manager application. Affects version: 1.7.0
8. When changing the baud rate of a device connected as a slave using the SDK, the changes are not properly reflected. Affects version: 1.7.1

Firmware Version 1.7.2 (Build No. 1.7.2_231102)

Release | 2023-11-03

> **Caution**
> Devices with the new BLE chip cannot downgrade to a lower version after upgrading the firmware to v1.7.0 or higher. Devices with existing BLE chips can be downgraded to a lower version.
>
> For more information, check the serial number of the device and contact the Suprema.

Bug Fixes

1. When running the Device Manager application v1.1.8 on iOS, certain devices do not connect. Affects version: 1.7.0
2. Custom smart card byte order is affected by the CSN card byte order setting. Affects version: 1.7.1
3. In the Device Manager application, there is an issue where the default **Encryption Type** is set to 'DES/3DES' instead of 'AES' when configuring a **DESFire** card in the **Suprema Smart Card Layout** tab. Affects version: 1.0.0

Firmware Version 1.7.1 (Build No. 1.7.1_230405)

Release | 2023-04-05

> **Caution**
> Devices with the new BLE chip cannot downgrade to a lower version after upgrading the firmware to v1.7.0 or higher. Devices with existing BLE chips can be downgraded to a lower version.
>
> For more information, check the serial number of the device and contact the Suprema.

New Features and Improvements

1. Supports **Custom Smart Card Layout**.
    - XPass D2 firmware v1.7.1 or higher.
2. Supports **Keypad Backlight** configuration.
    - XPass D2 (XPD2-GKDB) firmware v1.7.1 or higher.

Firmware Version 1.7.0 (Build No. 1.7.0_220921)

Release | 2022-09-21

> **Caution**
> Devices with the new BLE chip cannot downgrade to a lower version after upgrading the firmware to v1.7.0 or higher. Devices with existing BLE chips can be downgraded to a lower version.
>
> For more information, check the serial number of the device and contact the Suprema.

New Features and Improvements

1. Supports a new BLE (Bluetooth Low Energy) chip.
    - The BLE chip parts of the hardware have been changed, and the firmware has been upgraded to be compatible with both the existing and new BLE chips.
2. Improved setting of the byte order for smart cards.
    - Improved to display valid values through Wiegand or OSDP when the AoC (Access on Card) ID issued by BioStar 2 is set to Alphanumeric.

Bug Fixes

1. Intermittent Mobile Card not authenticating Affects version: 1.4.0.
    - Improved BLE Micom Firmware and BLE Recovery RFCore.
2. When FaceStation F2 and Xpass D2 are connected as master-slave, Xpass D2 cannot authenticate with Mobile Card Affects version: 1.4.0.

Firmware Version 1.6.0 (Build No. 1.6.0_220223)

Release | 2022-03-02

New Features and Improvements

1. Supports setting the byte order of CSN card output data when using the device as a Wiegand reader or OSDP reader by connecting with a 3rd-party controller.
2. Supports setting the byte order for smart cards.
    - Supports setting the byte order of data to be output to Wiegand or OSDP.
3. Supports new features and improvements of the Device Manager app (v1.1.4 or later).
    - Supports Byte order setting for CSN card and smart card.
    - Added LED operation of the device according to auth mode operation.
4. Supports a new BLE (Bluetooth Low Energy) chip.
    - The BLE chip part of the hardware have been changed, and the firmware has been upgraded to be compatible with both the existing and new BLE chips.

Bug Fixes

1. The Wiegand value displayed on the card scan of the Device Manager app was different from the value output from BioStar 2 Affects version: 1.4.0.

Firmware Version 1.5.0 (Build No. 1.5.0_210408)

Release | 2021-04-12

New Features and Improvements

1. The transmission power level for Bluetooth Low Energy (BLE) has been adjusted.

Bug Fixes

1. Card data were output with the wrong BitCount while the device was communicating with a 3rd party controller via OSDP. Affects version: 1.4.0
2. Modified to output 4 bits for each key input on the keypad while the device was set as a Wiegand reader. (XPD2-GKDPB) Affects version: 1.4.0
3. The OSDP LED Temporary command did not work properly. Affects version: 1.4.0
4. Delay occurred when reading a smart card that contained credentials which the device did not support while the device was set as a Wiegand reader. Affects version: 1.0.0

Firmware Version 1.4.2 (Build No. 1.4.2_201012)

Release | 2020-10-15

New Features and Improvements

1. Support to mobile key deletion when deleting device data from the Airfob application.

Bug Fixes

1. Improved the function to operate according to Timer Count when setting the Temporary LED Affects version: 1.0.0
2. Device responded that it supports transparent mode by OSDP_PDCAP when connecting as slave while it does not support it. Affects version: 1.0.0
3. Values that did not comply with the OSDP specification were sent when pressing the keypad. Affects version: 1.0.2

Firmware Version 1.4.1 (Build No. 1.4.1_200721)

Release | 2020-07-22

New Features and Improvements

1. Improved changes to be applied immediately when changing the LED settings.
2. Added a feature to restore the Config area.

Firmware Version 1.4.0 (Build No. 1.4.0_200429)

Release | 2020-05-15

Initial Firmware Developed.

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