How to set up the HP Universal Card Reader X3D03A on an HP printer

The HP Universal Card Reader X3D03A reads both 125 kHz and 13.56 MHz cards, up to four card types at the same time. Set it to your card type first, then tell Print Director how to read the card number.

Set the reader to your card type

1. Plug the reader into a USB port on a Windows computer, and start the **HP Card Reader Configuration Utility**.
2. On the **Connection Settings** tab, set **Device Connection Type** to **Local (USB)**, and click **Connect**. If it fails the first time, try again.
3. On the **Card Reader Global Settings** tab, make sure one of the selected card types is your card's type (see the table below).
4. Click **Write to FLASH**.
5. On the **Decode Card Data** tab, swipe a card. The utility shows the **Card Data** and the decoded number. If nothing is read, choose another card type, click **Write to FLASH** and try again.

Card types and example settings

These examples come from real cards. Your cards may need other bit positions: use them as a starting point, and check with **View swipes**.

Card	Card type in the utility	Number wanted	Start bit	Bit length
AWID 125 kHz	**Awid (FA02)**	Number decoded by the utility (45109)	38	17
AWID 125 kHz	**Awid (FA02)**	Number printed on the card (1749045)	24	31
EM410x ISO 125 kHz	**EM/Marin 410x (FB01)**	Number decoded by the utility (64430319767)	0	40
EM410x ISO 125 kHz	**EM/Marin 410x (FB01)**	Number printed on the card (5810327)	8	32
MIFARE 13.56 MHz	**RDR-785X Equivalent (6F01)**	Number decoded by the utility (963831900)	0	32

Set up the reader in Resource Manager

1. Plug the reader into the HP printer's USB port. Until Print Director registers it, the panel may say that the USB device is not supported.
2. In Resource Manager, go to **Print Management** > **Shared Devices**, double-click the printer and click **Controller**. Check that **Controller Type** is **HP Integrated**.
3. On the **Authentication** page, set **Identification method** to **Card or keypad login** or **Card only**.
4. On the **Cards** page, under **USB device registration**, click **Choose known VID/PID**, choose **HP Universal Card Reader X3D03A** and click **OK**. This also sets **Byte conversion method** and **Data ordering** for that reader.
5. Under **Card reader settings**, choose whether users may register their own cards in **Self-register cards**.
6. Check that **Byte conversion method** is **Bytes are ascii codes for hex characters** and **Data ordering** is **Reverse bytes**.
7. Set **Start bit** and **Bit length** for the number you want (see the table above).

Then initialise the printer, so the reader is registered on it: on the **Initialisation** page, click **Initialise** and check the output box. Click **OK + Refresh All**.

To check the result, swipe a few cards at the printer and click **View swipes** on the **Cards** page.

Related articles

- *HP Integrated controller settings*
- *How to set up an Elatec card reader*
- *How to set up an HID Omnikey 5427 card reader*

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