Streamline printer access with multi-use card reader

HP HID Mobile Access® BLE MIFARE Card Reader

Merge form and function in an ultra-slim format for secure authentication

Enhanced capabilities including: Support for Mobile technologies on Smartphones including Apple Wallet NFC HID Mobile and BLE for WAVE ID Mobile and Orange PACKID, and support for Secure badge technologies including all MIFARE badges and HID iCLASS SE and Seos.

Small size, big functionality

The HP HID Mobile Access BLE MIFARE Card Reader is an ultra-slim, highly capable card reader with multiple technologies for identity access management, authentication, and logical access. Its small, thin form factor allow for easy internal or external installation.

Designed for flexibility and adaptability

The versatile and scalable HP HID Mobile Access BLE MIFARE Card Reader can link with RFID proximity smart cards and mobile technologies for iOS and Android Smartphones, including HID Mobile Access, WAVE ID, Orange PACKID Bluetooth Low Energy (BLE) and Apple Wallet NFC HID Mobile. Additional mobile badge technologies will be made available via firmware updates. This allows the organisation to bring multiple end user credentials onto one platform. With HP HID Mobile Access MIFARE Card Reader, the end user can leverage existing digital HID credentials on mobile devices for both building access and secure pull printing. Users can also programme their own HID ELITE CUSTOM keys and HID MOB keys to meet specific secure requirements. The card reader supports the more secure physical credential technologies of MIFARE DESFire EV1, EV2, EV3/Classic/Ultralight/Plus and HID Seos®. The HP HID Mobile Access BLE MIFARE Card Reader is a popular addition to the HP portfolio of card readers, which are known for quality and versatility.

Key features include:

- Four ID card configurations to accommodate multi-card systems
- Auto-tuning 13.56 MHz antenna to optimise performance in various environments
- User-selectable volume control with a beeper-off setting for quiet zones
- HID SIO processor enables HID iCLASS®, HID iCLASS SE®, HID iCLASS Seos, HID Mobile Access BLE and Apple Wallet NFC HID Mobile Access
- Support for reading the secure memory of MIFARE DESFire EV1, EV2, EV3, MIFARE Classic, MIFARE Ultralight, and MIFARE Plus cards
- BLE support for WAVE ID, Orange PACKID and HID Mobile Access
- The card reader enables support to Apple Wallet via NFC

Common applications

Credential-based reader solutions help streamline workflow and avoid identification errors by eliminating the need to manually enter usernames and passwords.

	Healthcare	Government	Manufacturing	Enterprise
Secure printing	✓	✓	✓	✓

HP HID Mobile Access® BLE MIFARE Card Reader

Keyboard emulation

When an employee presents a credential at the HP HID Mobile Access BLE MIFARE Card Reader, the reader emulates a keyboard to present the credential data to the secure pull-printing application (on-premise or in the cloud). The pull-printing application validates the credential data against the organisation's employee database or active directory for authentication and access to the HP printer or MFP.
The HP HID Mobile Access BLE MIFARE Card Reader is highly configurable using HP Card Reader Configuration Utility, the rf IDEAS Card Reader Configuration Utility and the rf IDEAS Smart Card Manager.

HP Card Reader Configuration Utility and WAVE ID Smartcard Manager

There are three configuration utilities:

HP Card Reader Configuration Utility
allows users to create and configure the reader with card-type settings specific to the end user requirements. This utility also provides technology to push setting/configuration files out to any number of HP card readers installed across the fleet of HP printers and MFPs.

rf IDEAS WAVE ID Smartcard Manager
allows users to configure the reader for both encrypted and unencrypted data on MIFARE smart cards. It also allows users to select the desired MIFARE card technologies (such as DESFire). Users can manage deployment of encrypted MIFARE Secure Keys to the reader, maintaining the secure chain of custody for these encryption keys. Once the encryption file for secure memory MIFARE credentials has been created, the HP Card Reader Configuration Utility can push this encryption file to the entire fleet of card readers installed on HP printers and MFPs.

rf IDEAS Configuration Tool
This utility complements the HP Card Reader Configuration Utility by enabling users to create .hwg or .ini files for keystroke-type readers. It allows users to generate the necessary configuration files and remotely deploy them to a fleet of keystroke readers using the HP Card Reader Configuration Utility. This tool ensures seamless integration and efficient management of keystroke readers across the entire fleet of HP printers and MFPs.

Security

The HP HID Mobile Access BLE MIFARE Card Reader supports both the MIFARE and the HID SE/Seos secure credential technologies. The reader also includes the option to enable card-data encryption before it is sent to the host system.

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MIFARE

The card reader supports the full family of MIFARE secure credential technologies, including DESFire EV1/EV2/EV3, Classic, Plus, and Ultralight. The reader uses the NXP AV2 Secure Application Module (SAM). The SAM is an IC where the cryptographic keys can be stored and used securely.
The connection between the SAM and the reader uses security protocols based on symmetric cryptography (TDEA and AES). The protocols comply with state-of-the-art standards to help ensure data confidentiality and integrity.

Key features include:

- Support for MIFARE Crypto1, TDEA (Triple DES encryption algorithm), and AES cryptography
- Secure storage and updating of keys (key usage counters)
- 128-key entries for symmetric cryptography
- TDEA- and AES-based key diversification

HID

The reader uses the HID SE processor built into a SIM card (in 2FF form factor). The iCLASS SE Processor is part of HID Global's open iCLASS SE platform that enables customers to future-proof their Secure Identity infrastructures. The iCLASS SE Processor supports new Secure Identity Object™ (SIO)-enabled credentials based on a variety of technologies, such as iCLASS® SETM, iCLASS Elite®, or iCLASS SEOS.

Key features include:

- Interface standards: ISO 7816-3 (T=1)
- Certifications: CC EAL 5+ high (hardware only)
- Symmetrical cryptography: 3DES
- Asymmetrical cryptography: RSA up to 2048 bit, ECC up to 521 bit

HP HID Mobile Access® BLE MIFARE Card Reader

Product specifications

Model (part number)	HP HID Mobile Access BLE MIFARE Card Reader (35H11B)
Installation	HP Hardware Integration Pocket (HIP2)
Standard contents	Reader, 69.9 mm (2-3/4") short USB RAC MINI USB Cable, and User Guide
Operating frequency	RFID: 125/132 kHz and 13.56 MHz | BLE (Bluetooth Low Energy): 2.4 GHz
Interface	USB keyboard emulation
Accessory Kit: external installation	HP HIP2 Card Reader Accessory Kit (HP part number: 8ZN00A); Includes external case, 1.8 m (6') USB Type A cable, and Mounting Kit
Accessory Kit: installation in larger HP HIP1 pocket	HP HIP1 Card Reader Accessory Kit (HP product number: 5B248A); Includes 127 mm (5") USB RAC MINI Female USB cable, 178 (7") USB MINI Male USB cable, and HIP1 pocket cover.
Dimensions	152 x 508 x 762 mm (0.6 x 2.0 x 3.0 in)
Weight	76.6 gm (2.7 oz)
Housing colour	Black
Standard cable length	69.9 mm (2-3/4") short USB RAC MINI USB cable
Indicators	LED indicator (green, amber, red); Adjustable beeper volume (off, low, medium, high)
Form factor	HP HIP pocket flush installation; accessory kits for external installation
Power supply	USB powered; minimum 5V

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Power consumption	70 mA typical, 100 mA maximum
Environmental ranges	Operating temperature: -30° to 65° C (-22° to 150° F); Storage temperature: -40° to 85° C (-40° to 185° F); Relative humidity, non-condensing: 5% to 95%
Certifications	FCC-United States, CE Mark-Europe, RCM-Australia, IC-Industry Canada, Japan Environmental: RoHS, REACH For information about other global certifications, please contact HP.
Compliance	HIPAA, CJIS
Compatible operating systems	Windows® XP/7/8.1/10; Linux®; HP OXP
Cryptographic module Cryptography certification (MODE)	HID SE PROCESSOR | MIFARE NXP AV2 SAM EAL 5+ MIFARE AV1 SAM compatible
Supported card types	**13.56 MHz card types::** aptiQ CSN (MIFARE), aptiQ CSN (MIFARE DESFire EV1), CEPAS, e-Tag CSN, FeliCa Lite, HID iCLASS, CSN, I Tag CSN, I-Code CSN, Identiv, ISO 14443A CSN, ISO 14443B, ISO 15693A CSN, LEGIC advant CSN, MIFARE Classic CSN, MIFARE DESFire CSN, MIFARE DESFire EV1/EV2/EV3, CSN, MIFARE Plus (Encentuate), MIFARE Plus (NXP), MIFARE Ultralight CSN, my-d (Infineon), Oyster, SecuraKey, Tag-It (Texas Instruments), Topaz, XceedID, HID iCLASS, SE, and Seos Secure Memory **125 kHz card types:** AWID, Cardax UID, CASI-RUSCO, CDVI, Cotag, Deister UID, Digitag, Dimpna UID, EM 410x, EM 410x Alternate, EM 410x/Marin, EM 410x/Marin Alternate, GProx-II ID, GProx-II UID, HID Prox, HID Prox UID, HiTag 1/S, HiTag 1/S Alternate, HiTag 2, HiTag 2 Alternate, IDTECK, IDTECK Alternate, Indala ASP Custom, Indala ASP+ Custom, Indala ECR Custom, Indala/Motorola ASP 26 Bit, Indala/Motorola ASP UID, ioProx/Kantech, ISONAS, Keri 26-bit UID, Keri 32-bit UID, Keri NXT/Farpointe/Pyramid 26 Bit, Keri NXT/Farpointe/Pyramid UID (128 bit), Nedap, NexWatch/Nexkey/Honeywell, Paradox, Radio Key, ReadykeyPRO UID, Rosslare, Corbin Russwin UID, Urmet, Postech
Mobile support	BLE: iOS/Android HID Mobile Access BLE: iOS/Android: WAVE ID Mobile, Orange PACKID NFC: iOS Apple Wallet NFC HID, Android HID Mobile Access

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