



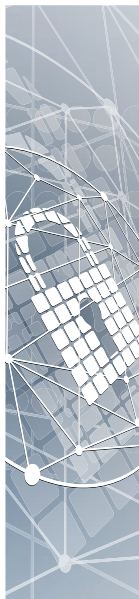
Understanding MIFARE Technology and its use in Onity locks and equipment.

MIFARE Classic®

The legacy MIFARE Classic technology has been widely used for access control, transportation, and payment systems. It operates at 13.56MHz and uses a proprietary security algorithm.

Security Levels: Uses a fixed memory structure with sectors and blocks. Security is performed on a per-sector basis.

Applications: MIFARE Classic is not recommended for use by its manufacturer, NXP.



MIFARE Plus® & ULC

To address security concerns, NXP introduced MIFARE Plus & ULC. It serves as an upgrade for existing MIFARE Classic systems.

Security Levels: In addition to the ULC 3DES and Plus 128-bit encryption, Onity offers a new security scheme (EAL 4+ authentication) with a state-of-the-art 128-bit AES key for the proprietary encrypted payload.

Applications: Recommended for applications demanding higher security, such as hospitality staff credentials and room access control and payment systems.

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Onity Products and Compatibility

The following locks and front desk systems are **NOT** MIFARE Plus & ULC compatible.



HT Mag one-piece locks:

- Squared corners
- Design element: insertion of magnetic style card



HT RFID & KHH-xxxx one-piece locks:

- Sold between 2007 and 2018
- Design element: read head protrudes with square edges



ADV RFID & KRF-xxxx two-piece locks:

- Sold between 2008 and 2018
- Design element: all black read head



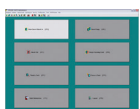
Wall readers:

- Design element: all black read head



HT22P encoders:

- Sold between 2006 and 2018



HT 24W or HT24/28W front desk solution



OnPoint encoder

The following Onity products are MIFARE Plus & ULC compatible.



Trillium® RFID locks:

- One-piece design
- Design elements: rounded rectangular design and flush read head



ADVANCE Trillium RFID locks:

- Two-piece design
- Design element: black read head with finished trim ring



Serene™ luxury locks:

- Design element: all in one world class aesthetic design



RFID/Bluetooth Low Energy Wall Reader:

- Compatible with Trillium, ADVANCE Trillium or Serene locking systems
- Design element: trim ring around the black read head



OnPortal™ front desk system:

- Scalable lock management solution
- Direct integration with Onity's DirectKey mobile access system



Compact RFID Encoder:

- Works seamlessly with the OnPortal system



HT22R front desk system (no longer sold):

- HT22R encoder; SKU HT22R is only visible under the unit
- Note: please confirm all encoders are 'R' versions and not 'P'

Conclusion

In summary, MIFARE Plus & ULC technology provides a compelling security upgrade to legacy systems while leveraging existing system investments. Customers can confidently choose Onity products based on their security needs and cost considerations.

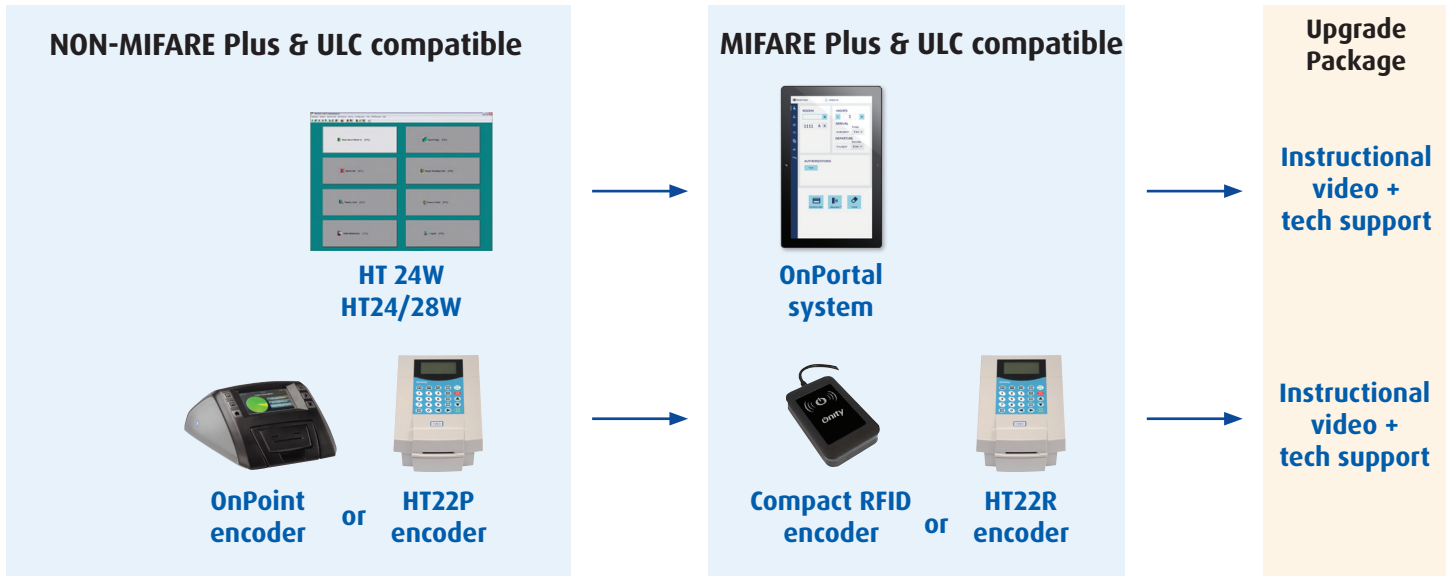
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