

## D24 Encoders FAQ

1. **What is a D24 contactless encoder/decoder?**
  - The D24 contactless encoder/decoder is an electronic module which can write/read and decode a proximity ID card at a distance of up to two (2) inches (50 mm), without coming into physical contact with the card.
2. **What types of proximity card formats are supported?**
  - HID Prox (125Khz) – Decoder for HID 26 bit open format cards
  - HID Prox (125Khz) – ProxWriter Encoder for HID 26 bit open format cards
  - HID iCLASS (13.56 Mhz) – Encoder/Decoder for HID iCLASS cards
  - Philips Mifare, ISO 14443, type A (13.56 Mhz) – Encoder/Decoder for Mifare cards
3. **Is it possible to encode/decode ISO15693 card with this device?**
  - Yes. The D24 encoder supports HID iCLASS 15693 type cards.
4. **Does installation of the encoder/decoder in a plastic card printer slow down the card printing process?**
  - Card printer throughput depends upon a number of variables, such as the amount of data to be encoded, data base access time (i.e. computer system speed), software used, etc. In any event, in-printer encoding is far faster, and more secure than, the separate, manual handling of individual cards with external desktop encoding solutions.
5. **What options are available with the Encoders?**
  - Encoder PCBAs and connecting cables are available for custom integration into any thermal printer, desktop or wall mounted device.
  - Field-installable upgrade kits are also available for the Zebra Technologies P310/P420/P520 and P330i-type plastic card printers to convert them into contactless encoding systems.
6. **What are the unique features of the D24 encoders?**
  - 9-24 VDC Input Voltage for maximum flexibility in low voltage applications.
  - Software switching selects Prox 125Khz or iCLASS/Mifare13.56Mhz for communications.
  - Single serial interface, dual frequency support (125Khz + 13.56Mhz)
  - Small, compact design for installation in limited spaces.
7. **Does DigiOn24 provide software support?**
  - The D24 encoder protocol is supported by most popular ID badging software, including:
    1. ExchangeIt Mifare Exchange
    2. Nfive CardFive Elite
    3. Synercard Asure ID Exchange
    4. Screencheck BadgeMaker 6.0
    5. Plasticard Gatekeeper
  - DigiOn24 SDK and DLLs are also available for driver development

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8. **What is the process if verifying the information encoded in the card relative to the information encoded?**
- It is the function of the application software to read back the data written for verification in Mifare or iCLASS applications, since these cards can hold large amount of data (up to 4Kbytes).
9. **Why do I need contactless card for access control applications?**
- Magnetic cards are lower in cost, but not as reliable or secure as contactless cards. Frequent swiping of the magnetic stripe creates rapid wear on the magnetic head and the card.
  - Contactless cards are more expensive, but more reliable, since no contact is required between the card and the reader. Mifare and iCLASS cards, with their additional data storage capacity, can also provide additional security when biometric data are stored to authenticate the Cardholder.
  - The United States Department of Defense and other government agencies have begun to mandate the use of contactless cards in many applications, such as the Common Access Card (CAC). Federal legislation is currently working its way through Congress to implement contactless cards for the Real ID Act.
10. **What card printer hardware does DigiOn24 sell or recommend?**
- DigiOn24 does not resell card printers or software solutions. We seek to partner with system integrators, device manufacturers, and software developers to integrate our contactless encoders, thereby increasing the value of your solutions.