

ADVANTECH

Enabling an Intelligent Planet

NFC-Enabled Batteryless ePaper Solution with EPD-302/303/304

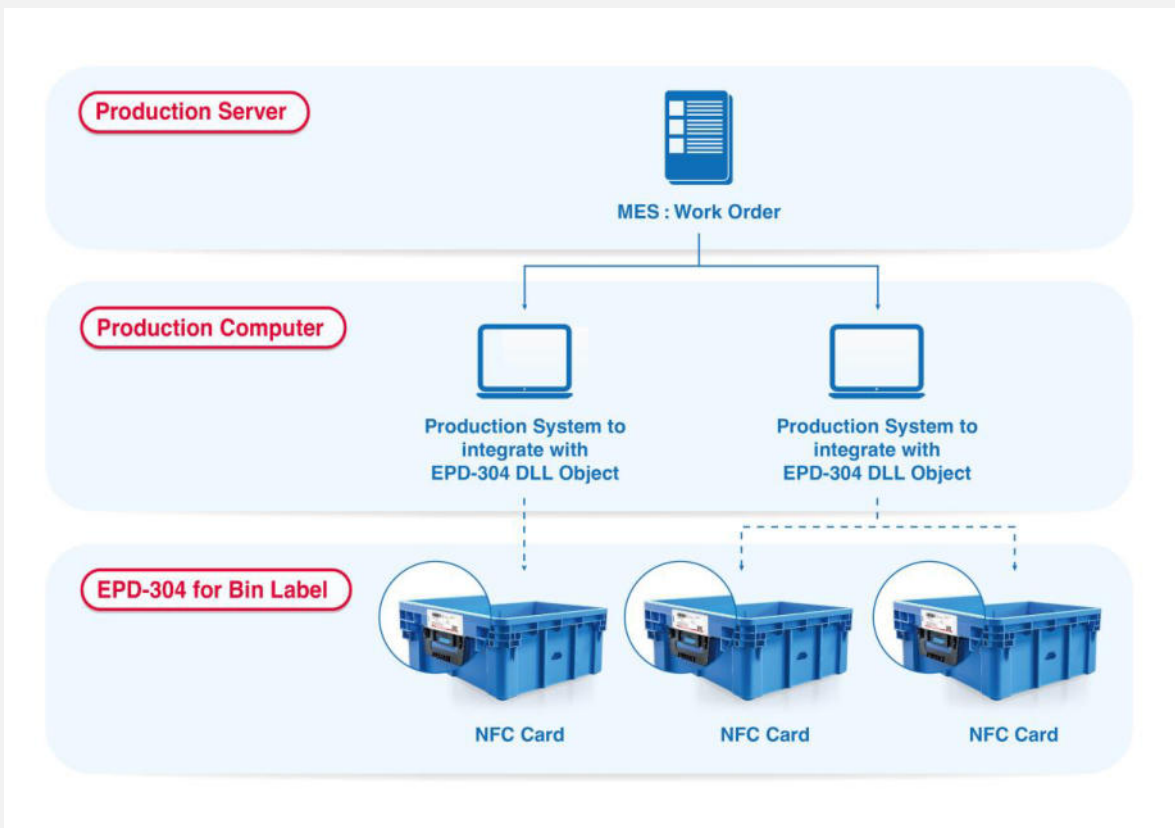


How does NFC Provide Power and Transfer Data?

The NFC tag chip is a passive device embedded in an antenna, powered by the magnetic field generated by an NFC reader (such as a smartphone or NFC reader). This enables wireless data transfer and functionality without the need for a dedicated power source.

100% ESG-Compliant ePaper

Replacing traditional paper with the [EPD-302](#) / [EPD-303](#) / [EPD-304](#) , which can be reused without any power consumption, significantly reduces CO2 emissions. Traditional paper generates 60,000 times more CO2 emissions than ePaper over five years of factory production. Embracing "reuse, recycle, and replace" with ePaper helps companies earn in the carbon market and easily comply with ESG standards from the start.

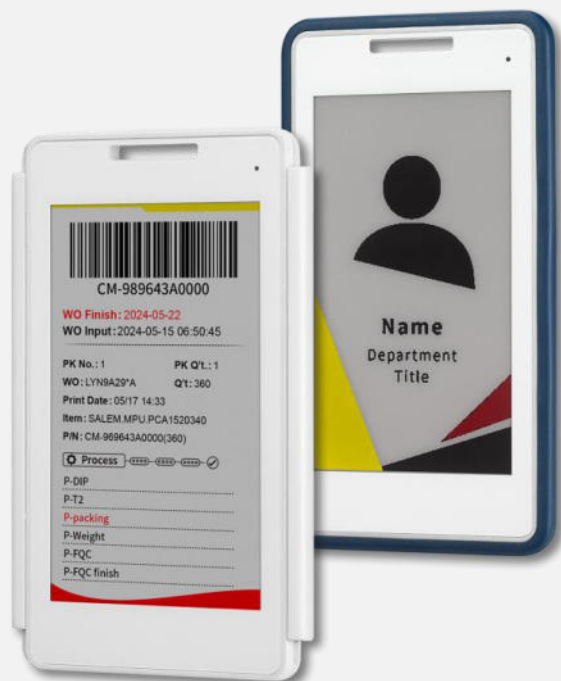


Why Choose the EPD-302/303/304?

1. Easy setup with Advantech's DLL sample code for writing and reading data.
2. Customized software agents for simpler deployment.
3. Expert wireless team ensures accurate NFC detection and reduces transmission time through software compression technology.
4. IP68 rating supports use in harsh environments, making it suitable for a wide range of applications.

Product Specifications

- Processor: ARM Cortex M0+ RISC, 128 KB flash
- Display: 3.7" black/white/red ePaper panel
- Power: Passive NFC-powered ePaper (no battery required)
- Features: Fast transmission with 3-color interactive LED
- Usage: Refresh using a smartphone with the Advantech NFC App or NFC Reader
- Operating Temperature Range: 0~50(black/white) 0 ~ 40°C (black/white/red), 0~40(black/white/red/yellow)
- Communication: NFC Agent for seamless communication with the EPD server, streamlining automation



Related Products

Advantech EPD-302



The EPD-302 is for black, white 3.7" NFC ePaper.

- ARM Cortex M0+ RISC 128kB Flash
- 3.7" ePaper Panel Display
- Passive NFC-Powered e-Paper, No Battery
- Fast Transmission with 3-Colors Interactive LED
- Enable smartphone to refresh by using the Advantech NFC App or NFC Reader
- Supported Operating Temperature Range: B/W: 0 ~ 50 °C
- Prepared NFC DLL sample code and agent with OTA

Advantech EPD-303



The ultra-thin 3.7" NFC ePaper display, available in black, white, and red colors, is suitable for application in warehouse and logistics environments

- ARM Cortex M0+ RISC 128kB Flash
- 3.7" Black, White, and Red ePaper Panel Display
- Passive NFC-Powered e-Paper, No Battery
- Fast Transmission with 3-Colors Interactive LED
- Enable smartphone to refresh by using the Advantech NFC App or NFC Reader
- Supported Operating Temperature Range: B/W/R: 0 ~ 40 °C
- Prepared NFC Agent for seamless communication with the EPD server to streamline automation processes

Advantech EPD-304



The EPD-304 is for 4-colors, black, white, red, and yellow 3.7" NFC ePaper.

- ARM Cortex M0+ RISC 128kB Flash
- 3.7" ePaper Panel Display
- Passive NFC-Powered e-Paper, No Battery
- Fast Transmission with 3-Colors Interactive LED
- Enable smartphone to refresh by using the Advantech NFC App or NFC Reader
- Supported Operating Temperature Range: B/W/R/Y: 0 ~ 40 °C
- Prepared NFC DLL sample code and agent with OTA

Advantech EPD-210



2.9" ePaper solution suite in NFC and Batteryless for warehouse ,logistic box and name card

- 2.9" ePaper with black and white colors
- Sunlight-readable display with 180-degree viewing angle
- Supports data transmissions via NFC
- Batteryless design, powered by reader
- Flexible fastener that can be easily customized for various applications
- Ready NFC Agent to communicate with EPD server for automation process