

## MIO-3B Mobile printer, bar code scanner and NFC reader for any smartphone

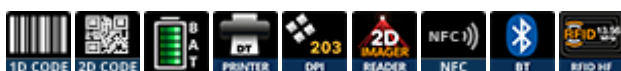
Birch MiO-3 can turn any smartphone into a popular mobile POS system with a thermal receipt printer, barcode scanner and NFC reader.

The indisputable advantage of this solution, where a regular phone is used as the core of the mobile POS system, is always an up-to-date operating system without security threats and a lower overall price.



### Main features of the Birch MiO-3 device

- Built-in thermal printer, which can print tickets, menus, invoices, etc. It can replace the PDA handheld terminal, which is used in various industries. There are at most one set and a wide range of applications.
- The built-in high-precision QR code scanning module can accurately scan various 1D/2D barcodes such as payment, commodities, labels, etc. It is suitable for commercial, retail, cashier, warehousing, logistics inventory and other industries.
- Built-in Bluetooth module, NFC reading module.
- Compatible with Bluetooth and devices of Android, IOS, Harmony OS and other systems.
- Support a variety of third-party software printing, such as: takeaway software, printing software, cash register software.
- Large-capacity 3000mAh battery, long-lasting battery life, continuous work, and longer standby time.
- It is more convenient to carry and use. There is no need for ribbon, ribbon, ink, and it can be easily printed with thermal printing paper, which is efficient and convenient.



# Technical Description

## Functionality & Operation

|                            |                                                             |
|----------------------------|-------------------------------------------------------------|
| 1D Barcode Symbolologies   | All standard one-dimension barcodes                         |
| 2D Code Symbolologies      | Data Matrix, QR code, PDF417, Micro QR Code                 |
| Print mode                 | direct thermal                                              |
| Print speed                | 5ips                                                        |
| Maximal print width        | 48mm                                                        |
| Communication interface    | Bluetooth                                                   |
| Commands set               | ESC/POS                                                     |
| Memory                     | 8kB                                                         |
| RFID transponder protocols | ISO 14443A, ISO 14443B, MIFARE Classic, NFC (NDEF), NTAG215 |
| Frequency                  | 13.56 MHz                                                   |

## Optical

|                         |                                   |
|-------------------------|-----------------------------------|
| Depth of scan field     |                                   |
| Resolution              | Scanner: 5 mil ; Printer: 203 dpi |
| Minimum symbol contrast | 10%                               |

## Electrical

|                               |                                            |
|-------------------------------|--------------------------------------------|
| Main battery pack             | Rechargeable Li-Ion battery 3000 mAh, 3.7V |
| Power Source                  | +5V $\pm$ 10%                              |
| Power Consumption - Operation | 750mW                                      |
| Power Consumption - Standby   | 70mA                                       |

## Mechanical

|            |                                         |
|------------|-----------------------------------------|
| Dimensions | Width: 82mm, Height: 200mm Length: 50mm |
|------------|-----------------------------------------|

## Consumables

|                       |      |
|-----------------------|------|
| Maximal roll diameter | 40mm |
|-----------------------|------|

## Environment

|                                     |                                       |
|-------------------------------------|---------------------------------------|
| Operating temperature               | 0 to 40°C                             |
| Storage temperature                 | -40 to 55°C                           |
| Operating humidity (non-condensing) | 5 to 95%                              |
| Shock resistance                    | drop from 1,5 m onto concrete surface |

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