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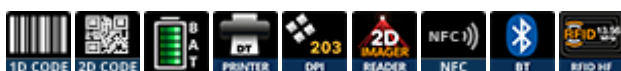
Birch MiO-3 can turn any smartphone into a popular mobile POS system with a thermal receipt printer, barcode scanner and NFC reader.

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 Symbologies	All standard one-dimension barcodes
2D Code Symbologies	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 ±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