

# MS3690-1D

## Lightweight programmable data terminal



1D



### Features

- Support to receive data and recharge using the base
- Use magnetic USB cable, can improve durability
- Use OLED screen, more energy-efficient and more comfortable
- Decode all major 1D barcode symbologies
- A SDK based on C is provided including user-friendly IDE & fully functional APIs
- Optional: Bluetooth is compatible with 4.0/3.0/2.1+EDR standard
- Optional: Wi-Fi supports Station mode and Access Point(AP) mode
- Windows and Android、iOS
- Support database importing and querying
- Support offline storage and automatic reconnect
- Support the display in multiple languages
- Support vibration mode, ideal for both noisy and quiet environment

# MS3690-1D Technical Specifications

|                    |                                                                                                                                                                                                                                                                                                                 |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Working range      | Bluetooth: 30m (line of sight), Wi-Fi: 100m (line of sight)                                                                                                                                                                                                                                                     |
| Radio link         | Bluetooth: 2.4-2.5GHz, Bluetooth 4.0/3.0/2.1+EDR Class 2<br>Wi-Fi: 2.4GHz, compliant with Wi-Fi IEEE 802.11 b/g/n protocol standards                                                                                                                                                                            |
| Interface          | Bluetooth: HID keyboard, SPP, BLE slave/master<br>Wi-Fi: Station mode (STA), Access Point mode (AP)<br>USB: USB HID keyboard, USB virtual COM, U Disk                                                                                                                                                           |
| Data storage       | 4MB for out of range batch mode, 250,000 barcodes (each barcode is of 15 bytes)<br>8MB for data batch mode, 500,000 barcodes (each barcode is of 15 bytes)<br>76MB for U Disk mode, 5,000,000 barcodes (each barcode is of 15 bytes)                                                                            |
| Keyboard layout    | USA, Turkish F/Q, French, Italian, Spanish, Slovak, Denmark, Japanese, German                                                                                                                                                                                                                                   |
| Dimensions         | Length × Width × Depth: 12.5×4.6×3.1cm                                                                                                                                                                                                                                                                          |
| Weight             | 115g                                                                                                                                                                                                                                                                                                            |
| Color              | Gray/Black/White/Customization                                                                                                                                                                                                                                                                                  |
| Case material      | ABS                                                                                                                                                                                                                                                                                                             |
| Indicator          | Beeper, LED, Vibrator                                                                                                                                                                                                                                                                                           |
| Display            | OLED display (128×64) with LED backlight                                                                                                                                                                                                                                                                        |
| Input voltage      | 5±5%V                                                                                                                                                                                                                                                                                                           |
| Operating current  | Bluetooth: 4 mA (sleeping), 75 mA (working), 135 mA (scanning)<br>Wi-Fi: 4 mA (sleeping), 127 mA (working), 187 mA (scanning)                                                                                                                                                                                   |
| Battery            | 1900 mAh Lithium-ion battery, Charge current: 500 mA Charge time: Fully charged (80%) in 4 hours                                                                                                                                                                                                                |
| Standby time       | 14 days                                                                                                                                                                                                                                                                                                         |
| Operating time     | Bluetooth: 22 hours, Wi-Fi: 13 hours, based on 1 scan/5 seconds                                                                                                                                                                                                                                                 |
| Scan engine        | uE966                                                                                                                                                                                                                                                                                                           |
| Light source       | 650nm visible laser diode                                                                                                                                                                                                                                                                                       |
| Scanning angle     | ±50°, ±65°, ±35° (Skew, Pitch, Roll)                                                                                                                                                                                                                                                                            |
| Scanning rate      | 100±10 times/second                                                                                                                                                                                                                                                                                             |
| Barcode contrast   | minimum 20%                                                                                                                                                                                                                                                                                                     |
| Decode capability  | UPC-A, UPC-E, EAN-13, EAN-8, ISBN/ISSN, Code 39, Code 39 full ASCII, Code 32, Trioptic Code 39<br>Interleaved 2 of 5 Industrial 2 of 5 Matrix 2 of 5 Codabar (NW7), Code 128, Code 93, Code 11 (USD-8),<br>MSI/Plessey, UK/Plessey, UCC/EAN 128, China Post, China Finance, GS1 DataBar (formerly RSS) variants |
| Minimum resolution | 4mil                                                                                                                                                                                                                                                                                                            |
| Decoding depth     | 4mil (9B): 50-90mm<br>5mil (12B): 50-115mm<br>10mil (3B): 20-260mm<br>15mil (3B): 30-380mm<br>20mil (3B): 45-490mm<br>30mil (2B): 40-700mm<br>55mil (2B): 80-850mm                                                                                                                                              |
| Temperature        | working: -20°C to 55°C (-4°F to 131°F), storage: -40°C to 70°C (-40°F to 158°F)                                                                                                                                                                                                                                 |
| Humidity           | 5% to 95% (non-condensing)                                                                                                                                                                                                                                                                                      |
| Safety             | Laser safety: EN60825-1, Class 1<br>EMC: EN55022, EN55024<br>Electrical safety: EN60950-1<br>Illumination: 0 to 100000 LUX<br>Protection class: IP65<br>Drop resistance: Multiple 1.2m (4.9ft) drops to concrete<br>Environmental: RoHS compliant                                                               |

Note: Bluetooth and Wi-Fi are optional (Alternative)

[Notice]: Specifications are subject to change without notice.