

# 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 Wi-Fi: 2.4GHz, compliant with Wi-Fi IEEE 802.11 b/g/n protocol standards
Interface	Bluetooth: HID keyboard, SPP, BLE slave/master Wi-Fi: Station mode(STA), Access Point mode(AP) USB: USB HID keyboard, USB virtual COM, U Disk
Data storage	4MB for out of range batch: 250,000 barcodes(each barcode is of 15 bytes) 8MB for data batch mode: 500,000 barcodes(each barcode is of 15 bytes) 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) 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	18 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, Interleaved 2 of 5, Industrial 2 of 5, Matrix 2 of 5, Codabar(NW7), Code 128, Code 93, Code 11(USD-8), 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 5mil (12B) : 50-115mm 10mil (3B) : 20-260mm 15mil (3B) : 30-380mm 20mil (3B) : 45-490mm 30mil (2B) : 40-700mm 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 EMC: EN55022,EN55024 Electrical safety: EN60950-1 Illumination: 0 to 100000LUX Protection class: IP65 Drop resistance: Multiple 1.2m(4.9ft)drops to concrete Environmental: RoHS compliant

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

