

# 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 mode 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	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 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 100000 LUX Protection class: IP65 Drop resistance: Multiple 1.2m (4.9ft) drops to concrete Environmental: RoHS compliant

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

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

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