

MS3690-2D

Lightweight programmable data terminal



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
- Read all common 1D/2D barcodes from paper labels and electronic screens
- 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

MS3690-2D 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 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: 7 mA(sleeping), 80 mA(working), 450 mA(scanning) Wi-Fi: 7 mA (sleeping) , 132 mA (working) , 506 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: 19 hours, Wi-Fi: 12 hours, based on 1 scan/5 seconds
Scan engine	ME5800-SR
Image size	1280×800 pixels
Field angle	Horizontal: 42°, vertical: 26.5°
Light source	white LED, 2700K
Target light source	green LED, wavelength 525nm
Scanning angle	±70°, ±72°, ±360° (Skew, Pitch, Roll)
Barcode contrast	minimum 20%
Decode capability	1D: 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 2D: PDF417, MicroPDF417, QR code, DataMatrix, Han Xin Code, Aztec Code
Minimum resolution	1D(Code 128): 4mil , 2D(PDF417): 6.7mil
Decoding depth	4mil Code 128 (9B): 65-142mm 5mil Code 39 (3B): 60-168mm 10mil Code 39 (3B): 22-330mm 13mil UPC (6B): 20-340mm 20mil Code 39 (1B): 34-520mm 6.7mil PDF417 (20B): 45-180mm 10mil QR (20B): 30-205mm 10mil DM (20B): 35-182mm
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: 0~100,000LUX Protection class: IP65 Drop resistance: Multiple 1.2m(4.9ft)drops to concrete Environmental: RoHS compliant

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