

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
- 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: 30 m (line of sight), Wi-Fi: 100 m (line of sight)		
Radio link	Bluetooth: 2.4–2.5 GHz, Bluetooth 4.0/3.0/2.1+EDR, Class 2		
	Wi-Fi: 2.4 GHz, 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: 12.5×4.6×3.1 cm		
Weight	108.8 g		
Color	Gray/Black/White/Customization		
Case material	ABS		
Indicator	Beeper, LED, Vibrator		
Display	OLED display (128×64) with LED backlight		
Input Voltage	5.0±0.25 VDC		
Standby current	Bluetooth: 0.6 mA, Wi-Fi: 0.6 mA		
Working current	Bluetooth: 78 mA, Wi-Fi: 138 mA		
Scanning current	Bluetooth: 435 mA, Wi-Fi: 500 mA		
Battery	1900 mAh Lithium-ion battery Charge current: 500 mA Charge time: Fully charged (>80%) in 4 hours		
Standby time	30 days		
Operating time	Bluetooth: 19 hours, Wi-Fi: 12 hours, based on 1 scan/5 seconds		
Scan engine	ME5600		
Image size	1280×800 pixels		
Field angle	Horizontal: 41°, vertical: 28°		
Light source	white LED, 2700 K, optional: 5000 K		
Target light source	red LED, wavelength 617 nm		
Scanning angle	±70°, ±75°, ±360° (Skew, Pitch, Roll)		
Barcode contrast	20% minimum reflectance difference		
Decode capability	All common 1D/2D barcodes		
Minimum resolution	1D: 3mil		
Decoding depth		SR	HD
	3mil Code 39 (3B):	/	43-95 mm
	4mil Code 128 (9B):	69-123 mm	35-123 mm
	10mil Code 39 (3B):	25-283 mm	21-240 mm
	13mil UPC (6B):	18-326 mm	17-270 mm
	6.7mil PDF417 (20B):	40-160 mm	24-159 mm
	10mil QR (20B):	25-193 mm	17-187 mm
	20mil QR (20B):	25-360 mm	20-290 mm
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: EN55032, EN55035		
	Electrical safety: EN62368-1		
	Illumination: 0~100,000 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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