

EMBEDDED 2D MODULE · 640 × 480 CMOS · SCREEN-CODE READING · 20 g

XL-D7

Embedded 2D Reading Module

Embedded 2D reading

640 × 480 CMOS

Resolution ≥ 7 mil

Screen-code reading

USB HID / COM / RS-232

20 g

High-Performance Decoding

01

An on-board processing chip with advanced core algorithms delivers accurate and reliable data output.

High Reading Accuracy

02

A professional sensor gives a wide depth of field, high sensitivity and a low print-contrast requirement (PCS ≥ 30%).

Multi-Symbology Support

03

14 1D code types and 8 2D code types cover the mainstream symbologies in one module.

Fast Reading, Screen Codes

04

Reads printed and on-screen codes quickly, cutting operator workload and improving the mobile-payment experience.



Left mounting tab



Centre lens window



Right mounting ear and fixing hole

TYPICAL VERTICALS

The module is embedded into **self-service terminals and ticket machines, logistics, finance, transportation and medical & health equipment**, reading common 1D and 2D codes inside the host enclosure.

PRODUCT FEATURES

- **Decoding** — on-board processor with advanced core algorithms, reliable data output
- **Symbologies** — 14 1D and 8 2D code types
- **Trigger Mode** — manual or automatic
- **Reading accuracy** — professional sensor, wide DOF, PCS from 30%
- **Screen codes** — designed for reading codes on mobile phone displays
- **Compact module** — 55 × 33.4 × 14.1 mm, 20 g, mounting holes included

READING PERFORMANCE

Image Sensor	640 × 480 CMOS
Resolution	≥ 7 mil
Depth of Field (DOF)	0–100 mm
Print Contrast Signal (PCS)	≥ 30%
Pitch / Skew / Tilt	±30° / ±30° / 360°
Illumination	White LED
Ambient Light Immunity	0–100,000 lux
Trigger Mode	Manual / Automatic
User Indicators	Buzzer
Configuration	Command protocol / setup barcodes

SUPPORTED SYMBOLOGIES

1D	Code 11, Code 39, Code 93, Code 128, UPC-A, UPC-E, EAN-13, EAN-8, Codabar, Standard 2 of 5, Matrix 2 of 5, Interleaved 2 of 5, MSI, GS1
2D	QR Code, Micro QR, Mirror QR, PDF417, MicroPDF417, Data Matrix (ECC 200), Aztec, Han Xin

ELECTRICAL

Host System Interfaces	USB virtual COM / USB HID / RS-232
Input Voltage	5 V
Operating Current	200 mA
Max. Current	240 mA
Power Consumption	1 W operating / 1.2 W max.

PHYSICAL

Dimensions	55 × 33.4 × 14.1 mm
Mounting Holes	49.5 × 20 mm
Cable Length	1.5 m (optional)
Weight	20 g

ENVIRONMENTAL

Operating Temperature	–20 °C to +65 °C
Storage Temperature	–40 °C to +80 °C
Humidity	5–95% RH, non-condensing
IP Rating	IP00
Certifications & Compliance	EN55022, EN55024, EN60950-1, EN62471:2008
Warranty	2 years

HOST INTERFACE

USB virtual COM port, USB HID and RS-232 on one module — plug-in to existing kiosk controllers with no extra board.

MOUNTING

55 × 33.4 × 14.1 mm, 20 g, with holes on a 49.5 × 20 mm pattern; 1.5 m cable optional.

POWER

5 V input at 200 mA working and 240 mA peak — 1 W operating, 1.2 W maximum.