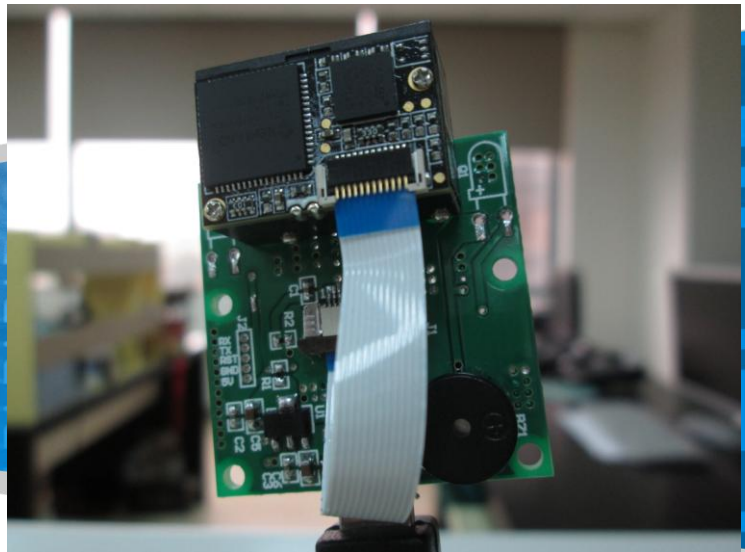


## KP-8000

### OEM Scan Module



The KP-8000 OEM scan module, a computerized image recognition system, brings about a new era of 2D barcode scan module.

The KP-8000's 2D barcode decoder advanced chip design & manufacturing, which significantly simplifies application design and delivers superior performance and solid reliability with low power consumption.

The KP-8000 supports all mainstream 1D as well as PDF417, QR Code (M1/M2/Micro), Data Matrix and GS1-DataBar™(RSS) (Limited/ Stacked/ Expanded versions).

This compact engine weighs only 5 grams and fits easily into even the most space-constrained equipments such as data collectors, meter readers, ticket validators and PDAs.

#### Features:

- **Two-In-One Design:** Seamless integration of CMOS image sensor and decoder board makes the engine small, lightweight and easy for integration.
- **High Performance & Ultra-Low Power Consumption:** The engine can read 1D and 2D barcodes with a power consumption only one third that of a traditional engine.
- **All-Round Scanning Capability:** It can read barcodes on virtually any medium - paper, plastic cards, mobile phones and LCD displays.

## KP-8000 Specifications

Performance		
Image Sensor		752x480 CMOS
Processor		2D decoder chip 48MHz
Illumination		Red LED 625±10 nm
Symbologies	2D	PDF 417, Data Matrix (ECC200,ECC000,050,080,100,140) , QR Code
	1D	Code 128, EAN-13, EAN-8, Code 39, UPC-A, UPC-E, Codabar, Interleaved 2 of 5, ITF-6, ITF-14, ISBN, Code 93, UCC/EAN-128, GS1 Databar, Matrix 2 of 5, Code 11, Industrial 2 of 5, Standard 2 of 5, Plessey, MSI-Plessey, etc.
Reading Precision		≥ 5mil
Depth of Field*	EAN13 (13mil)	55mm - 185mm
	Code 39 (5mil)	55mm - 100mm
	PDF 417 (6.67mil)	40mm - 130mm
	Data Matrix (10mil)	40mm - 135mm
	QR Code (15mil)	40mm - 160mm
Symbol Contrast		≥ 30% reflectance difference
Scan Angle**		Roll: 360°, Pitch: ±55°, Skew: ±55°
Field of View		Horizontal 36°; Vertical 23°
Indicator		Two LED (red & blue)
Button		1 Button : Scan
Option		IR Detect(940nm)
Mechanical/Electrical		
Interface		TTL-232(Tx/Rx/Reset/Vcc/Gnd), Micro USB
Rated Power Consumption		0.76 W
Operating Voltage		3.3±10% VDC
Current @ 3.3 VDC	Operating Current	230 mA
	Standby Current	4mA (USB communication not supported); 7mA (USB communication supported)
	Sleep Current	<5 uA
Dimensions		32(W)×32(D)×12.52(H)mm
Weight		7.0g
Environmental		
Operating Temperature		-20°C~ +60°C
Storage Temperature		-40°C~ +80°C
Humidity		5% ~ 95% (non-condensing)
Ambient Light		0 ~ 100000 lux (natural light)
Scan Engine Certifications		

FCC Part15 Class B, CE EMC Class B

\* Test conditions: T=23°C, Illumination=300 LUX

\*\* Test conditions:

Code 39, 3 Bytes; Resolution=10mil; W:N=3:1; PCS=0.8; Barcode Height=11mm; Scan Distance=120mm, T=23°C, Illumination=300 LUX

## Contact Us

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The logo for Kutech, featuring the word "kutech" in a bold, lowercase, red sans-serif font.

\*Specifications are subject to change without notice.\*

V1.0.0