

HF521T

2D Imager Module Engine

The Honeywell continues its vast breadth of embedded technology for kiosk applications with the HF521T, the 2D Imager engine and module hybrid.

The HF521T is a 2D area-imaging hybrid module engine that scans the essential barcodes in everyday, entry-level kiosk application in retail. Not to be confused with the popular HF521, the HF521T is the "Tiny" variant with similar powerful performance packaged in a different shell and form factor.

With its 12-pin connector, it enables applicability to various and vital applications in Kiosk workflows. Designed with a wide viewing angle and near depth of field to help ensure optimized performance for reading screen barcodes in near field. The broad decoding capabilities include rapid decoding of key 1D and 2D barcodes with particularly powerful reading capability of highly reflective mobile phone screens, reducing process time and helping to improve the user experience.



HF521T- 2D Imager Module Engine

FEATURES AND BENEFITS



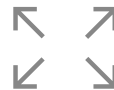
COMPACT DESIGN

Compact size with built-in LED light source that enables swift reading of mobile phone screen barcodes



FLEXIBLE INTERFACE

The 12-pin connector allows application interface flexibility



FIELD OF VIEW

Its wide field of view enables an intuitive end user scanning experience



BUILT FOR THE ESSENTIAL KIOSK

This general-entry scanner has powerful performance to meet the needs of the vital workflows of kiosk applications



HF521T Technical Specifications

TABLE 1. SCAN PERFORMANCE

CHARACTERISTIC	PARAMETER
Sensor Technology	Global shutter
Resolution	640 x 480 pixels
Frames per second (FPS)	60 FPS
Illumination	White LED
Motion Tolerance	up to 1.2m/s
Field of view	83° Horizontal x 66.2° Vertical
Scan Angles	Tilt 360° pitch ±55° skew ±65°
Symbol minimum contrast	25%
Indicator	Buzzer
Resolution	1D 3mil Code 39 2D 6.7mil QR

TABLE 2. MECHANICAL/ELECTRICAL

CHARACTERISTIC	PARAMETER
Dimensions (H x W x D)	53.5mm x 33.38mm x 20mm [2.11in x 1.31in x 0.79in]
Weight	18.7g [0.66oz]
Host Interface	USB
Connector	12-pin
Input voltage	5Vdc±5%
Typical current	5V - 200 mA

TABLE 3. ENVIRONMENTAL

CHARACTERISTIC	PARAMETER
Operating Temperature	-10°C to 50°C [14°F to 122°F]
Storage Temperature	-40°C to 70°C [-40°F to 158°F]
Humidity	Up to 95 %RH, no condensation @50°C
Ambient Light	0 lux to 100,000 lux
Mean Time Between Failure (MTBF)	1.96 M hours
Warranty	15-month limited warranty; the warranty period starts at date of shipment from Honeywell to customer

TABLE 4. READ RANGES

SYMBOLGY	NEAR DISTANCE (MM [IN])	FAR DISTANCE (MM [IN])	RANGE (MM [IN])
13 mil UPC-A (100%)	15[0.59]	110[4.33]	95[3.74]
10 mil C39	15[0.59]	40[1.57]	25[0.98]
20 mil C39	18[0.71]	150[5.91]	132[5.20]
20 mil QR	12[0.47]	90[3.54]	78[3.07]

TABLE 5. SYMBOLOGIES

SYMBOLGY	
Linear	Codabar, Code 11, Code 128, Code 2 of 5, Code39, Code 93 and 93i, EAN/JAN-13, EAN/JAN 8, IATA Code 2 of 5, Interleaved 2 of 5, Matrix 2 of 5, MSI, GS1 Databar, UPC-A, UPC E, UPC-A/EAN-13 with Extended Coupon Code, Coupon GS1, Code32(PARAF), EAN-UCC Emulation
	2D Stacked
2D Matrix	Codablock A, Codablock F, PDF417, MicroPDF417
Postal	Aztec Code, Data Matrix, Maxi Code, QR Code, Chinese Sensible (Han Xin), Grid Matrix, Dot Code
	Australian Post, British Post, Canadian Post, China Post, Japanese Post, Korea Post, Netherlands Post, Planet Code, Postnet

For more information

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