

Scan Engine SE20



Ultra-Compact Design

Ideally suited for tight integrations, the module is extremely small (21.5 x 7.0 x 9.9 mm) and weighs less than 5g.



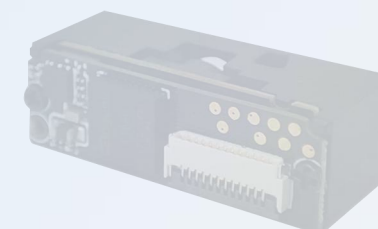
High-Performance Imaging

It features a 1280x800 pixel CMOS sensor with a global shutter and white LED illumination, ensuring superior image capture.



Versatile & Rugged

The engine supports USB and TTL interfaces, reads a wide range of 1D/2D symbologies, and operates reliably from -20°C to 65°C.



Supermarket



Payment



Self-order



Mall



Unattended



Parking

SE20 TECHNICAL SPEC



Category / Item	Specification Details
PERFORMANCE	
Image Sensor	CMOS
Resolution	1280 x 800
Shutters	Global
Illumination / Aiming	White LED / Red LED
Symbologies	2D: QR, Datamatrix, PDF417, Micro QR, Micro PDF417, Hanxin, GridMatrix, Aztec, Maxicode, GS1 QR, GS1 Datamatrix, GS1 Combosite(CC-A/CC-B/CC-C) 1D: Code128, Code39, Code 39 full ascii, Trioptic Code39, Code 32, Code93, UPC-A, UPC-E, UPC-E1, UPC-E+, UPC-A+, EAN8/JAN8, EAN13/JAN13, Bookland EAN/ ISBN, Interleaved 2 of 5, Matrix 2 of 5, Industrial 2 of 5, Chinese 2 of 5, Codebar, Code 11, MSI, ISBT, GS1-128, GS1 Databar14, GS1 Databar Limited, GS1 Databar Expanded, Postal Codes by Country
Typical reading depth of field	3.3mil CODE39: 10~20cm; 5mil CODE39: 7~32cm ; 13mil EAN13: 5~72cm ; 15mil QR: 3~40cm ; 10mil DataMatrix: 8~28cm ; 6.7mil PDF417: 9.5~27cm
Resolution	3.3mil
Contrast of symbols	≥10%
Scan angles	tilt: 360° , pitch: ± 60° , skew: ± 60°
FOV	Horizontal 39° , Vertical 26°
ELECTRONIC	
Weight	<5g
Communication interface	UART TTL, USB HID, USB VCOM
Dimensions	21.5(L) x 7.0(W) x 9.9(D) mm
Alerts	LED, buzzer signal output
operating voltage	3.2~3.6V
Operating / Standby Current	Operating: 280mA@3.3V (sweep state, average current) / Standby: 45mA@3.3V (standby, USB on) , 40mA@3.3V (standby, USB off)
ENVIRONMENTAL	
Temperature (Op/Storage)	Operating: -20°C~+65°C Storage: -40°C~+70°C
Storage Humidity / Operating Humidity	5-95% Non-condensing
Environmental lighting	0~100000LUX



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