

Scan Engine SG20



Ultra-Compact Design

Measuring just $21.5 \times 7.0 \times 9.9$ mm and weighing under 5g, this module is engineered for seamless integration into space-constrained devices.



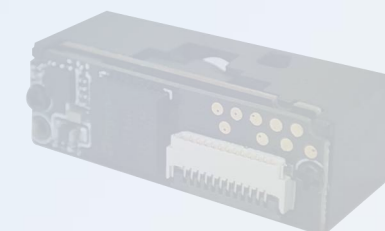
High-Performance Imaging

It features a 1280×800 global shutter CMOS sensor paired with laser aiming, ensuring precise and fast reading of complex 1D and 2D symbologies.



Rugged Adaptability

Designed for harsh environments, it operates reliably in temperatures from -20°C to 65°C and withstands ambient lighting conditions up to 100,000 LUX.



Supermarket



Payment



Self-order



Mall



Unattended



Parking

SG20 TECHNICAL SPEC



Category / Item	Specification Details
PERFORMANCE	
Image Sensor	CMOS
Resolution	1280 x 800
Shutters	Global
Illumination / Aiming	White LED / Laser
Symbologies	2D: QR, Datamatrix, PDF417, Micro QR, Micro PDF417, Hanxin, GridMatrix, Aztec, Maxicode, GS1 QR, GS1 Datamatrix, GS1 Composite(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)x7.0(W)x9.9(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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