

Scan Engine EL13



Ultra-Lightweight Design

Weighing typically just 1.5g with compact dimensions (21.6 × 10.3 × 8.1 mm), it is ideal for integration into space-constrained devices.



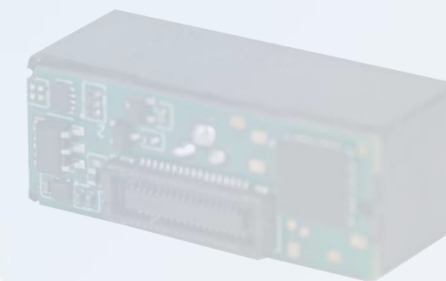
High-Speed Imaging

Featuring a global shutter sensor capable of up to 100fps and red laser aiming, it ensures rapid and accurate scanning.



Reliable Durability

Built for tough environments, it withstands 1.2m drops to concrete and operates effectively in temperatures from -20°C to +50°C.



Supermarket



Payment



Self-order



Mall



Unattended



Parking

Category / Item	Specification Details
PERFORMANCE	
Image Sensor	Mono CMOS
Resolution	640(H) * 480(V)
Shutters	Global shutter
Frame Rate	Up to 100fps
Illumination / Aiming	White light / Red laser
Symbologies	2D: PDF417, MicroPDF417, Composite Code, Data Matrix, Maxicode, QR Code, MicroQR, Aztec, etc. 1D: UPC/EAN, UPC/EAN with supplementals, Code128, GS1-128, Code 39, Trioptic, Code 32, Code 93, Code11, Matrix 2 of 5, Interleaved 2 of 5, IATA 2 of 5, Industrial 2 of 5, Codabar, Codablock F, MSI, Telepen, Code11, GS1 DataBar variants Postal Code: Australian Post, British Post, China Post, Japanese Post, KIX Post, Korea Post, Planet Code, Postnet, Royal Mail Code (RM4SCC), etc.
DOF	DOF (EAN-13 13mil):55~400mm ; DOF (Code 39 20mil):60~500mm ; DOF (Code 39 10mil):80~310mm ; DOF (Data Matrix 15mil):30~270mm ; DOF (Data Matrix 10mil):40~190mm
Resolution	1D Code 39: 5mil, 2D Data Matrix: 9mil
Contrast of symbols	≥25%
Scan angles	tilt: 180° , pitch: ± 60° , skew: ± 60°
FOV	Horizontal 36.0° , Vertical 28.0°
ELECTRONIC	
Weight	1.5g(typical)
Dimensions	21.6(W)x10.28(D)x8.1(H) mm
Operating Voltage	VCC: 3.0~3.6V; VCC_IO: 3.0~3.6V
Operating Current	90mA (Maximum) @ VCC 3.3V
Standby Current	60mA (Maximum) @ VCC 3.3V
ENVIRONMENTAL	
Temperature (Op/Storage)	Operating: 20°C~+50°C Storage: -40°C~+85°C
Relative Humidity	5-95% Non-condensing
Operating Vibration	10~150HZ, 0.5G, triaxial direction, 1min/oct, 1 time/axial
Durable Vibration	10~150HZ, 2G, triaxial direction, 1min/oct, 20 times/axial
Fall Test	Withstand 1.2m drop to cement floor (50 times of 1.2m repeated)



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