

Embedded module EM20



Compact and Versatile Integration

An ultra-lightweight (27g) design featuring USB, TTL, and RS485 interfaces allows for easy integration into various systems.



Advanced Scanning

The global shutter sensor efficiently reads 1D and 2D codes from both screens and paper, supporting 360° rotation.



Supermarket



Payment



Self-order



Reliable Operation

Built to withstand harsh conditions, it operates in temperatures from -20°C to +60°C and functions in lighting up to 100,000 LUX.



Mall



Unattended



Parking

EM 20 TECHNICAL SPEC



Category / Item	Specification Details
PERFORMANCE	
Image Sensor	CMOS
Resolution	640*480
Light	Default: white for working state, green for success; customizable RGB color
Symbolologies	2D: PDF417, DataMatrix, QRCode, HanXin, AZTEC, maxicode 1D: EAN-13, EAN-8, UPC-A, UPC-E, Code 39, Code 128, ISBN, Code 93, Code 11, UCC/EAN-128, GS1 Databar, Interleaved 2 of 5, Matrix 2 of 5, Industrial 2 of 5, Coda bar, Standard 2 of 5, MSI-Plessey, GS1 composite code, etc
Reading accuracy	1D≥5mil 2D≥7mil
Typical reading depth of field	25-170mm Alipay payment code 35-145mm EAN13 13mil
Typical Decode Range	EAN-13(13mil): 0mm~200mm (barcode size: 31mm*15mm) Code39(5mil): 0mm~100mm (barcode size: 10mm*6mm)
Contrast of symbols	≥20%
Barcode sensitivity	Tilt +55°, deflection +55°, rotation 360°
FOV	Horizontal 72° Vertical 54°
ELECTRONIC	
Weight	27g
Interface	USB (optional, HID, virtual serial port), TTL serial port, RS485
Dimensions	55(D)x33.4(W)x13.1Max(H)
Voltage	Customizable 3.3V power supply
rated current	(Typical value) less than 220mA (5V input)
ENVIRONMENTAL	
Temperature (Op/Storage)	Operating: -20°C~+60°C Storage: -40°C~+70°C
Storage Humidity / Operating Humidity	5-95% Non-condensing
Environmental lighting	0~100,000LUX



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