GENERALSCAN

GMA1193 Smart Scan Module

GMA1193 features advanced motion tolerance, supporting barcode reading at speeds exceeding 2 m/s, enabling efficient "read-on-the-fly" performance. Its wide-angle lens increases the scanning field of view, allowing for automatic object detection from multiple angles and instant scan triggering. This significantly reduces transaction times and enhances the user experience in retail self-checkout scenarios. Equipped with proprietary decoding algorithms, the GMA1193 delivers high-speed scanning of both 1D and 2D barcodes. It demonstrates superior performance in reading barcodes on folded, reflective, or curved surfaces, ensuring reliable operation in various retail environments.

FEATURES

• **Wide-Angle Lens Design**
The wide-angle lens expands the scanning field of view, detecting automatically approaching objects from various angles and trigger the scanning process instantly.

• **Exceptional Motion Tolerance**
GMA1193 features outstanding motion tolerance, enabling accurate and reliable barcode decoding at object speeds of over 2 meters per second.

• **Adapts to Diverse Application Scenarios**
It is fully compatible with mainstream Windows, Android, and Linux systems, and is suitable for various application scenarios such as retail checkout, self-service machines, ticket verification, or mobile payment.

PERFORMANCE CHARACTERISTICS

Imager Sensor	CMOS
Optical Resolution	1280*800 pixels
Illumination	White LED
Readability	≥4mil (1D)
Field of View	Horizontal 60°, Virtual 41°
Screw, Pitch, Roll	Skew tolerance: ±70° from normal
	Pitch tolerance: ±60° from normal
	Roll tolerance: 360° from normal
Supported Symbologies	1D: CodeEANUPC, ISSN, MSI, Code Standard 2 of 5, Code128(GS1-128), Codabar, Code11, Code93, Plessey GS1DataBar(RSS-14), BC412, Code39, Code ISBT 128, Datalogic 2 of 5, Compressed 2 of 5, Industrial 2 of 5, Interleaved 2 of 5(12 of 5), Matrix 2 of 5
	2D: UCC Composite, China Sensible Code, Aztec, Datamatrix, DotCode, QRCode, Micro QRCode, OCR Code
	Postal Code: Australian Post, British Post, China Post, IMB, Japanese Post, KIX Post, Korea Post, Planet Code, Postnet, Royal Mail Code
	Composite: EAN/JAN Composites, UPC A/E, MicroPDF417, GS1 DataBar Composites, PDF417, MicroPDF, GS1 DataBar Expanded Stacked, GS1 DataBar Stacked, GS1 DataBar Stacked Omnidirectional, Composites

PHYSICAL PARAMETER

Dimension	113 x 93 x 45mm
Weight	136g
Notification	Beeper
Operation Voltage	5V ±5%
Operation Current	344mA(Classic RMS Value)
	486mA max.
Standby Current	220mA
Interfaces	USB, RS232

USER ENVIRONMENT

Operating Temperature	-20°C~50°C
Storage Temperature	-40°C~70°C
Humidity	5%~95% non-condensing

DECODE RANGE

13mil EAN-13	0 - 150MM
15mil QR Code	0 - 100MM

PRODUCT SPEC SHEET
Smart Scan Module GMA1193

DIMENSIONS
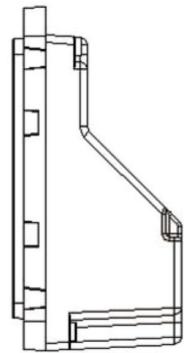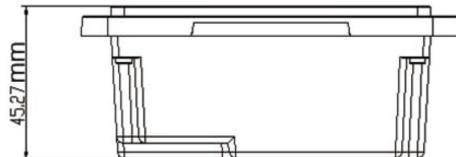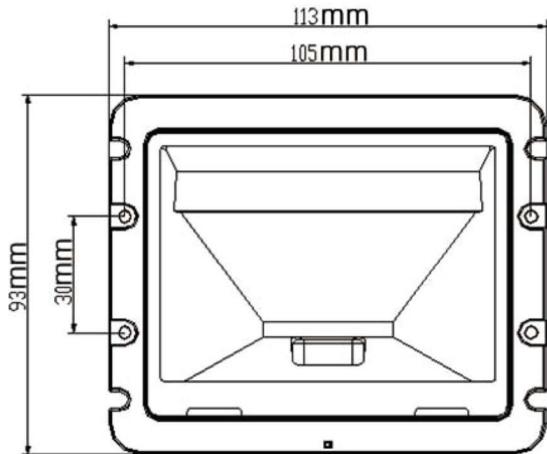
PIN	Definition	I/O	Description
1	BUZZER	O	Buzzer Indicator
2	KEY	I	Key, low level means press to start scanning, high level means no operation.
3	VCC_IN	I	Reset signal input, active low. Hold low for more than 100us to reset the device.
4	-	-	-
5	-	-	-
6	-	-	-
7	-	-	-
8	GND	-	Power
9	USB_DN	-	USB_D-
10	USB_DP	-	USB_D+

PIN1