GENERALSCAN

GMA3533 Smart Scan Module

GMA3533 offers versatile connectivity options including USB and TTL232, with optional customization for RS232S to meet various integration requirements. Specially optimized for on-screen barcode reading, it can reliably decode barcodes under low brightness, with screen protectors, or containing large data volumes, while also offering superb performance with printed codes. With a compact and space-saving design, the module measures only 35.2×33.2×15.5mm, making it easy to embed into industrial tablets, electronic sentinels, and payment terminals. It is widely applicable in turnstiles, access control systems, parcel lockers, ticket validators, kiosks, and various self-service devices - making it an ideal solution for seamless and efficient barcode scanning integration.

FEATURES

• Small Size Design

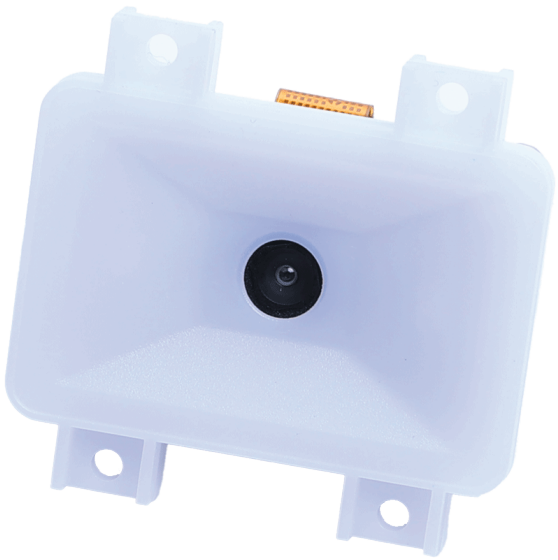
The product is designed to be compact, with maximum peripheral dimensions of 35.2×33.2×15.5mm, adapting to the needs of different equipment integration.

• Paper and Screen Code Reading Available

GMA3533 accurately reads paper and on-screen QR codes, with optimized performance for complex scenarios like low light, obstructions, or screen films.

• A Variety of Communication Interfaces Available

GMA3533 supports TTL232, USB, and optional RS232, ensuring compatibility with various control boards and system platforms for use in industrial control, embedded systems, and self-service terminals.



PERFORMANCE CHARACTERISTICS

Optical Resolution		640*480 CMOS
Illumination		White LED
Readability		≥3mil
Field of View		Horizontal 43°, Virtual 32°
Screw, Pitch, Roll		Skew tolerance: ±55° from normal Pitch tolerance: ±55° from normal Roll tolerance: 360° from normal
Supported Symbologies	1D:	Code 128(ISBT 128, AIM128, GS1 128), EAN-13, EAN-8, UPC-E, UPC-A, ISBN, ISSN, Codell, Intereaved 2 of 5, Code39, Code93, Code32, Codabar, Matrix 2 of 5, Industrial25, IATA25, MSI Plessey, GS1 Databar, Plessey, Febraban
	2D:	Maxicode, Datamatrix, Micro QR Code, PDF417, Micro PDF417, DotCode, QR Code, Aztec, Hanxin Code, Composite

PHYSICAL PARAMETER

Dimension	35.2 x 33.2 x 15.5mm
Notification	Beeper
Operation Voltage	DC 5V
Operation Current	160mA
Standby Current	10mA(USB), 22mA(UART)
Interfaces	USB, TTL232, customized RS232 supported

USER ENVIRONMENT

Ambient Light	0 - 100, 000Lux
Operating Temperature	-20°C~55°C
Storage Temperature	-40°C~70°C
Humidity	5%~95% non-condensing
LED Safty Grade	CE, FCC, RoHS, IEC62471

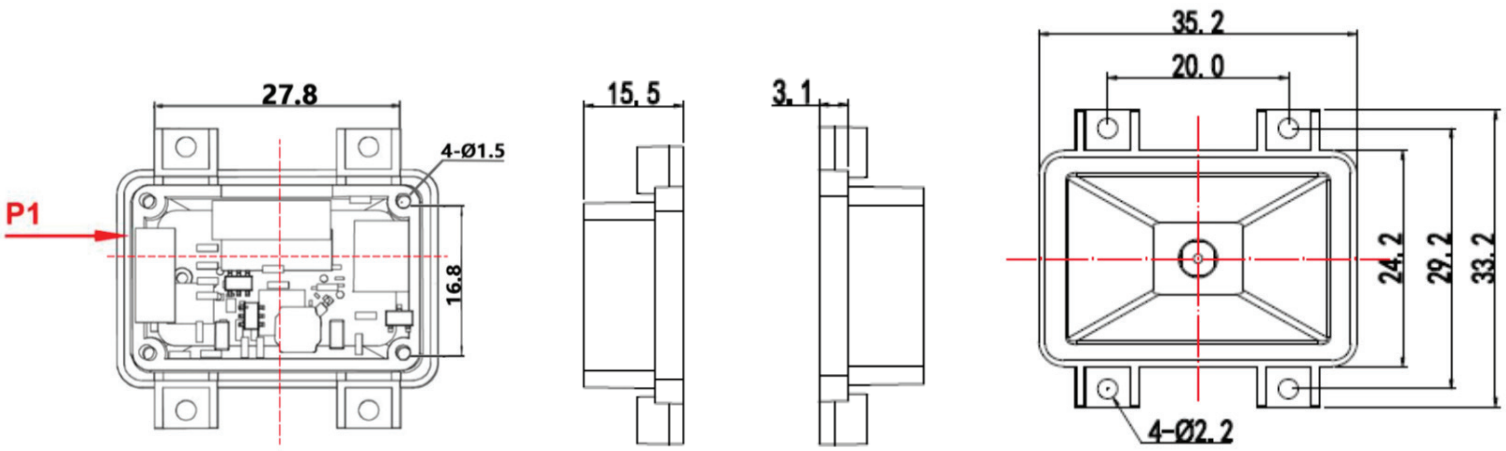
PRODUCT SPEC SHEET

Smart Scan Module GMA3533

DECODE RANGE

15mil DataMatrix	10 - 90MM
13mil Code39	30 - 110MM
15mil QR Code	10 - 90MM
10mil PDF417	15 - 90MM
10mil Code128	30 - 110MM

DIMENSIONS



PIN	Definition	I/O	Description
1	GND	-	Power
2	RXD	I/O	TTL receive (RS232 receive)
3	TXD	I/O	TTL transmit (RS232 transmit)
4	D+	I/O	USB_D+ signal
5	D-	I/O	USB_D- signal
6	VBUS	-	Power 5V

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