

How to enable Aim Code ID of Generalscan scanners

(Apply for all the Generalscan scanners)

Ver 1.0
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Overview

This article is used to introduce the operation steps of enabling Generalscan scanner's AIM Code ID function.

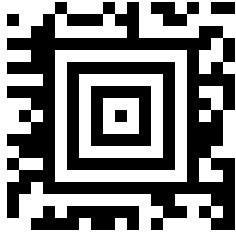
Operations

1. Comparison table of scanner models and scan engines

No.	Scanner Models	Scan Engine	AIM ID Identifiers
1	GS R1120	EM1350/965	Table1
2	GS R1521	FE260s	N/A
3	GS R1522	N4680	Table2
4	GS R3520	SE2707	Table 1
5	GS R3521	SE4107	Table 1
6	GS R5520	SE4710	Table 1
7	GS R5521	SE4770	Table 1
8	GS R5522	SE4750MR	Table 1
9	GS R5523	N6703 / N6803	Table 2
10	GS R5524	SE5500	Table 1

2. Configuration Barcodes

2.1 Enable AIM Code ID

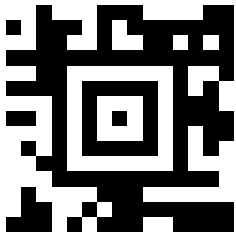


(GS R1522 / GS R5523)

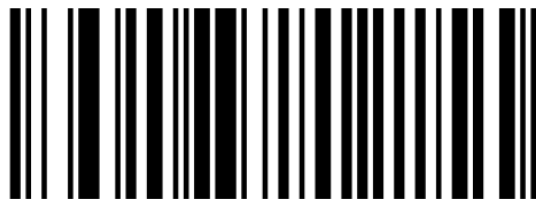


(GS R1120 / GS R3520 / GS R3521 / GS R5520 / GS R5521 / GS R5522 / GS R5524)

2.2 Disable AIM Code ID



(GS R1522 / GS R5523)



(GS R1120 / GS R3520 / GS R3521 / GS R5520 / GS R5521 / GS R5522 / GS R5524)

3. AIM ID Identifiers

Each AIM Code Identifier contains the three – character string] cm where:

] = Flag Character (ASCII 93)

c = Code Character (See Table 1 “Code Character”)

m = Modifier Character (see Table 1 “Modifier Character”)

Table 1 AIM Code ID Characters

Code Type	Code Character	Modifier Character	
		Option Value	Option
Code 39	A	0	No check character or Full ASCII processing.
		1	Reader has checked one check character.
		3	Reader has checked and stripped check character.
		4	Reader has performed Full ASCII character conversion.
		5	Reader has performed Full ASCII character conversion and checked one check character.
		7	Reader has performed Full ASCII character conversion and checked and stripped check character.
		Example: A Full ASCII barcode with check character W, A+I+MI+DW, is transmitted as] A7AIMID where 7 = (3+4).	
Trioptic Code 39	X	0	No option specified at this time. Always transmit 0.
		Example: A Trioptic barcode 412356 is transmitted as] X0412356	
Code 128	C	0	Standard data packet, no Function code 1 in first symbol position.
		1	Function code 1 in first symbol character position.
		2	Function code 1 in second symbol character position.
		Example: A Code (EAN) 128 barcode with Function 1 character FNC1 in the first position, AIMID is transmitted as] C1AIMID	
Interleaved 2 of 5	I	0	No check digit processing.
		1	Reader has validated check digit.
		3	Reader has validated and stripped check digit.
		Example: An I 2 of 5 barcode without check digit, 4123, is transmitted as] I04123	
Codabar	F	0	No check digit processing.
		1	Reader has checked check digit.
		3	Reader has stripped check digit before transmission.
		Example: A Codabar barcode without check digit, 4123, is transmitted as] F04123	
Code 93	G	0	No options specified at this time. Always transmit 0.
		Example: A Code 93 barcode 012345678905 is transmitted as] G0012345678905	
MSI	M	0	Check digits are sent.
		1	No check digit is sent.
		Example: An MSI barcode 4123, with a single check digit checked, is transmitted as] M14123	
Discrete 2 of 5	S	0	No options specified at this time. Always transmit 0.
		Example: A D 2 of 5 barcode 4123, is transmitted as] S04123	

Table1 AIM Code ID Characters (Continued)

Code Type	Code Character	Modifier Character	
		Option Value	Option
UPC/EAN	E	0	Standard data packet in full EAN format, i.e., 13 digits for UPC-A, UPC-E, and EAN-13 (not including supplemental data).
		1	Two-digit supplemental data only.
		2	Five-digit supplemental data only.
		3	Combined data packet comprising 13 digits from EAN-13, UPC-A or UPC-E symbol and 2 or 5 digits from supplemental symbol.
		4	EAN-8 data packet.
		Example: A UPC-A barcode 012345678905 is transmitted as] E00012345678905	
Bookland EAN	X	0	No options specified at this time. Always transmit 0.
		Example: A Bookland EAN barcode 123456789X is transmitted as] X0123456789X	
ISSN EAN	X	0	No options specified at this time. Always transmit 0.
		Example: An ISSN EAN barcode 123456789X is transmitted as] X0123456789X	
Code 11	H	0	Single check digit
		1	Two check digits
		3	Check characters validated but not transmitted.
GS1 DataBar Family	e		No option specified at this time. Always transmit 0. GS1 DataBar Omnidirectional and GS1 DataBar Limited transmit with an Application Identifier "01". Note: In GS1-128 emulation mode, GS1 DataBar is transmitted using Code 128 rules (i.e.,] C1).
		Example: A GS1 DataBar Omnidirectional barcode 0110012345678902 is transmitted as] e00110012345678902.	
EAN.UCC Composites (GS1 DataBar, GS1-128, 2D portion of UPC composite)			Native mode transmission. Note: UPC portion of composite is transmitted using UPC rules.
		0	Standard data packet.
		1	Data packet containing the data following an encoded symbol separator character.
		2	Data packet containing the data following an escape mechanism character. The data packet does not support the ECI protocol.
		3	Data packet containing the data following an escape mechanism character. The data packet supports the ECI protocol.
			GS1-128 emulation Note: UPC portion of composite is transmitted using UPC rules.
		1	Data packet is a GS1-128 symbol (i.e., data is preceded with] JC1).
MaxiCode	U	0	Symbol in Mode 4 or 5.
		1	Symbol in Mode 2 or 3.
		2	Symbol in Mode 4 or 5, ECI protocol implemented.
		3	Symbol in Mode 2 or 3, ECI protocol implemented in secondary message.

Table1 AIM Code ID Characters (Continued)

Code Type	Code Character	Modifier Character	
		Option Value	Option
PDF417, Micro PDF417	L	0	Reader set to conform to protocol defined in 1994 PDF417 symbology specifications. Note: When this option is transmitted, the receiver cannot reliably determine whether ECIs have been invoked or whether data byte 92DEC has been doubled in transmission.
		1	Reader set to follow the ECI protocol (Extended Channel Interpretation). All data characters 92DEC are doubled.
		2	Reader set for Basic Channel operation (no escape character transmission protocol). Data characters 92DEC are not doubled. Note: When decoders are set to this mode, unbuffered Macro symbols and symbols requiring the decoder to convey ECI escape sequences cannot be transmitted.
		3	The barcode contains a GS1-128 symbol, and the first codeword is 903-907, 912, 914, 915.
		4	The barcode contains a GS1-128 symbol, and the first codeword is in the range 908-909.
		5	The barcode contains a GS1-128 symbol, and the first codeword is in the range 910-911.
		Example: A PDF417 barcode ABCD, with no transmission protocol enabled, is transmitted as] L2ABCD.	
Data Matrix	d	0	ECC 000-140, not supported.
		1	ECC 200
		2	ECC 200, FNC1 in first or fifth position.
		3	ECC 200, FNC1 in second or sixth position.
		4	ECC 200, ECI protocol implemented.
		5	ECC 200, FNC1 in first or fifth position, ECI protocol implemented.
		6	ECC 200, FNC1 in second or sixth position, ECI protocol implemented.
GS1 Data Matrix	d	2	ECC 200, FNC1 in first or fifth position.
QR Code	Q	0	Model 1 symbol.
		1	Model 2 / MicroQR symbol, ECI protocol not implemented.
		2	Model 2 symbol, ECI protocol implemented.
		3	Model 2 symbol, ECI protocol not implemented, FNC1 implied in first position.
		4	Model 2 symbol, ECI protocol implemented, FNC1 implied in first position.
		5	Model 2 symbol, ECI protocol not implemented, FNC1 implied in second position.
		6	Model 2 symbol, ECI protocol implemented, FNC1 implied in second position.
GS1 QR	Q	3	Model 2 symbol, ECI protocol not implemented, FNC1 implied in first position.

Table1 IM Code ID Characters (Continued)

Code Type	Code Character	Modifier Character	
		Option Value	Option
Aztec	z	0	Aztec symbol.
		C	Aztec Rune symbol.
Han Xin	h	0	Generic data, no special features are set. The transmitted data does not follow the AIM ECI protocol.
		1	ECI protocol enabled. There is at least one ECI mode encoded. Transmitted data must follow the AIM ECI protocol.
Grid Matrix, Grid Matrix Inverse, Grid Matrix Mirror	]g	0	No options specified at this time. Always transmit 0.
Mailmark	X	0	No option specified at this time. Always transmit 0.

Table2 AIM Code ID Characters

Code Type	AIM	
	ID	Possible modifiers(m)
Codabar	] Fm	0-1
Code 11	]H3	
Code 128	] Cm	0,1,2,4
Code 32 Pharmaceutical (PARAF)	]X0	
Code 39 (supports Full ASCII mode )	] Am	0,1,3,4,5,7
TCIF Linked Code 39 (TLC39)	] L2	
Code 93 and 93i	] Gm	0-9, A-Z, a-m
EAN	] Em	0,1,3,4
EAN-13(including Bookland EAN)	]X0	
EAN-13 with Add-On	] E3	
EAN-13 with Extended Coupon Code	] E3	
EAN-8	] E4	
EAN-8 with Add-On	] E3	
GS1		
GS1 DataBar	] em	0
GS1 DataBar Limited	] em	
GS1 DataBar Expanded	] em	
GS1-128	]C1	
MSI	] Mm	0,1
Telepen	] Bm	

Table2 AIM Code ID Characters (Continued)

Code Type	AIM	
	ID	Possible modifiers(m)
2 of 5		
China Post (Hong Kong 2 of 5)	lX0	
Interleaved 2 of 5	l lm	0,1,3
Matrix 2 of 5	lX0	
NEC 2 of 5	lX0	
Straight 2 of 5 IATA	l Rm	
Straight 2 of 5 Industrial	l S0	
UPC		0,1,2,3,8,9, A, B, C
UPC-A	l E0	
UPC-A with Add-On	l E3	
UPC-A with Extended Coupon Code	l E3	
UPC-E	l E0	
UPC-E with Add-On	l E3	
UPC-E1	lX0	
Aztec Code	l zm	0-9, A-C
Chinese Sensible Code (Han Xin Code)	lX0	
Codablock A	l O6	0,1,4,5,6
Codablock F	l Om	0,1,4,5,6
Code 49	l Tm	0,1,2,4
Data Matrix	l dm	0-6
GS1	l em	0-3
GS1 Composite	l em	0-3
GS1 DataBar Omnidirectional	l em	
MaxiCode	l Um	0-3
PDF417	l Lm	0-2
MicroPDF417	l Lm	0-5
QR Code	l Qm	0-6
Micro QR Code	l Qm	
Australian Post	lX0	
British Post	lX0	
Canadian Post	lX0	
China Post	lX0	
Infomail	lX0	
Intelligent Mail Bar Code	lX0	
Japanese Post	lX0	
KIX (Netherlands) Post	lX0	
Korea Post	lX0	
Planet Code	lX0	

Table2 AIM Code ID Characters (Continued)

Code Type	AIM	
	ID	Possible modifiers(m)
Postal-4i	]X0	
Postnet	]X0	