

# B

## ***Programming Reference***

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## Symbol Code Identifiers

**Table B-1. Symbol Code Characters**

<b>Code Character</b>	<b>Code Type</b>
A	UPC/EAN
B	Code 39, Code 39 Full ASCII, Code 32
C	Codabar
D	Code 128, ISBT 128
E	Code 93
F	Interleaved 2 of 5
G	Discrete 2 of 5, or Discrete 2 of 5 IATA
H	Code 11
J	MSI
K	UCC/EAN-128
L	Bookland EAN
M	Trioptic Code 39
N	Coupon Code
R	GS1 DataBar Family
U	Chinese 2 of 5

## AIM Code Identifiers

Each AIM Code Identifier contains the three-character string **Jcm** where:

J = Flag Character (ASCII 93)

c = Code Character (see [Table B-2](#))

m = Modifier Character (see [Table B-3](#))

**Table B-2. Aim Code Characters**

Code Character	Code Type
A	Code 39, Code 39 Full ASCII, Code 32
C	Code 128 (all variants), Coupon (Code 128 portion)
E	UPC/EAN, Coupon (UPC portion)
e	GS1 DataBar Family
F	Codabar
G	Code 93
H	Code 11
I	Interleaved 2 of 5
M	MSI
S	D2 of 5, IATA 2 of 5
X	Bookland EAN, Code 39 Trioptic, Chinese 2 of 5

The modifier character is the sum of the applicable option values based on [Table B-3](#).

**Table B-3. Modifier Characters**

Code Type	Option Value	Option
<b>Code 39</b>	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 bar code with check character W, <b>A+I+MI+DW</b> , is transmitted as <b>J<sup>A7</sup>AimId</b> where 7 = (3+4).	
<b>Trioptic Code 39</b>	0	No option specified at this time. Always transmit 0.
	Example: A Trioptic bar code 412356 is transmitted as <b>JX0356412</b>	

**Table B-3. Modifier Characters (Continued)**

Code Type	Option Value	Option
<b>Chinese 2 of 5</b>	0	No option specified at this time. Always transmit 0.
	Example: A Chinese 2 of 5 bar code 01234567890 is transmitted as <b>JX00</b> 1234567890	
<b>Code 128</b>	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 bar code with Function 1 character <b>FNc1</b> in the first position, AIMID is transmitted as <b>Jc1</b> AIMID	
<b>I 2 of 5</b>	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 bar code without check digit, 4123, is transmitted as <b>Ji0</b> 4123	
<b>Codabar</b>	0	No check digit processing.
	1	Reader has checked check digit.
	3	Reader has stripped check digit before transmission.
	Example: A Codabar bar code without check digit, 4123, is transmitted as <b>JF0</b> 4123	
<b>Code 93</b>	0	No options specified at this time. Always transmit 0.
	Example: A Code 93 bar code 012345678905 is transmitted as <b>JG00</b> 12345678905	
<b>MSI</b>	0	Check digits are sent.
	1	No check digit is sent.
	Example: An MSI bar code 4123, with a single check digit checked, is transmitted as <b>JM1</b> 4123	
<b>D 2 of 5</b>	0	No options specified at this time. Always transmit 0.
	Example: A D 2 of 5 bar code 4123, is transmitted as <b>JS0</b> 4123	
<b>UPC/EAN</b>	0	Standard packet in full EAN country code format, which is 13 digits for UPC-A, UPC-E, and EAN-13 (not including supplemental data).
	1	Two-digit supplement data only.
	2	Five-digit supplement data only.
	3	Combined data packet comprising 13 digits from a UPC-A, UPC-E, or EAN-13 symbol and 2 or 5 digits from a supplemental symbol.
	4	EAN-8 data packet.
	Example: A UPC-A bar code 012345678905 is transmitted as <b>JE00</b> 12345678905	
<b>Bookland EAN</b>	0	No options specified at this time. Always transmit 0.
	Example: A Bookland EAN bar code 123456789X is transmitted as <b>JX0</b> 123456789X	
<b>Code 11</b>	0	Single check digit
	1	Two check digits
	3	Check characters validated but not transmitted.

**Table B-3. Modifier Characters (Continued)**

Code Type	Option Value	Option
<b>GS1 DataBar Family</b>		No option specified at this time. Always transmit 0. DataBar-14 and DataBar Limited transmit with an Application Identifier "01". Note: In UCC/EAN-128 emulation mode, GS1 DataBar is transmitted using Code 128 rules (i.e., JCI).
		Example: A DataBar-14 bar code 100123456788902 is transmitted as <b>Je</b> 001100123456788902.