

What is EAN 8?

EAN 8 consists of 7 characters of data.

How do I calculate the check digit?

This is easy, lets look at some data. Our Data **5070929**

All odd numbers are multiplied by 3 and the even number by 1.

Example.	Char. Pos	O	E	O	E	O	E	O	Total = 92
	Data	5	0	7	0	9	2	9	Modula 10 of 92 = 100
	Multiply	3	1	3	1	3	1	3	Check Digit = 8
	Results	15	0	21	0	27	2	27	

The total minus the Modula 10 value of the total give you the check digit number.

What is the Layout of the Barcode?

Below is a simple layout of the barcode.

Start Character	Left Hand Digits	Center Bar	Right Hand Data	Check Digit	Stop Character
1 Digit	4 Digits	1 Digit	3 Digits	1 Digit	1 Digit

How do I encode the Barcode?

Ok, to start with we have the first 4 characters, which are simply kept as they are, for example 5070.

The remaining 3 and the check digits are encoded with parity set C, shown below.

Parity Set C

Font Character	A	B	C	D	E	F	G	H	I	J
Numeric Pos	0	1	2	3	4	5	6	7	8	9

Below is a table giving showing our data encoded as EAN 8.

	Left Data	Right Data	Check Digit
Data	5 0 7 0	9 2 9	8
Index	1 2 3 4	5 6 7	8
Parity Set	N O N E	C C C	C
Result	5 0 7 0	J C J	I

How do I put it all together?

Simple, we have our final encoded data, now all we need to do is to add our additional control characters.

Result taken from above 5 0 7 0 J C J I

Start & Stop Characters is (or ASCII code 40 Center Bar Character is - or ASCII code 45

Our Final Barcode looks like this **(5070-JCJI(**

To add "<" and ">" to the barcode simply add "<" in front and ">" at the end of the final barcode string.

e.g. <(5070-JCJI(>

Barcode Font Example

