

## Converting UPC to ISBN Bar Code Numbers

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This *Application Note* details how to convert UPC bar code numbers to ISBN bar code numbers.

Part of the ISBN number is embedded in the UPC bar code number, except for the check digit, which can be calculated according to details below.

### 1 UPC has format

The following format is used to represent the UPC bar code number.

**CCCIIIIIID**

where;

CCC = Country Code - strip off and discard

D = check digit - strip off and discard

III.. = ISBN Code - retain this and recalculate new check digit.  
Return resultant 10 digits.

### 2 Calculate check digit

```
s = 0; ISBN$="087524170";
```

```
FOR count = 10 to 2 step -1
```

```
    s = s + (int(mid$(ISBN$,11 - count,1))*count)
```

```
NEXT count
```

```
checkdigit = 11 - (s MOD 11)
```

```
if checkdigit == 10 THEN checkdigit = "X"
```

```
if checkdigit == 11 then checkdigit = "0"
```