

Batch Mode – Barcodes Storage

This formula can help you on calculating the number of codes that can be stored into the Batch Mode memory.

You have to consider the available memory space of each product and add an overhead of some bytes to the number of characters of the barcode.

$$Y = M / (X + O)$$

Y= number barcodes that can be stored in memory

M = memory size available (bytes)

X = number of digits of the barcode

O = overhead

Products	Memory Size (M)	Overhead (O)
QuickScan Mobile	960 bytes	30 bytes
Gryphon BT (shared)	~ 2 K bytes	30 bytes
Gryphon GM4100	64 Kbytes	14 bytes
Gryphon GBT4100(normal batch)	64 Kbytes	14 bytes
Gryphon GBT4100(auto batch)	800 bytes	14 bytes
Gryphon GBT4400 (auto batch)	65 Kbytes	11 bytes
Dragon M 131	960 bytes	30 bytes
Powerscan BT7100 (normal batch)	64 Kbytes	14 bytes
Powerscan BT7100 (auto batch)	800 bytes	14 bytes
Powerscan M8300	12.8 Kbytes	30 bytes
Powerscan M8300 DK ¹	12.8 Kbytes	30 bytes
Powerscan M8300 DK ²	1 Mbyte	n/a
Powerscan M8500 ¹	12.8 Kbytes	30 bytes
Powerscan M8500 ²	1 Mbyte	n/a
Lynx BT	64 Kbytes	30 bytes
Powerscan BT8300	5 Kbytes	30 bytes
Powerscan BT8300 DK ¹	5 Kbytes	30 bytes
Powerscan BT8300 DK ²	1Mbyte	n/a

Note: 1 Kbyte = 1024 bytes.

¹ Automatic Batch mode (RAM)

² Normal Batch mode (Flash) = 2048 records (fixed as 240 bytes each)

Example 1:

Barcode is EAN-13 and product is the Powerscan M8300:

M = 13107 bytes (12.8 x 1024)

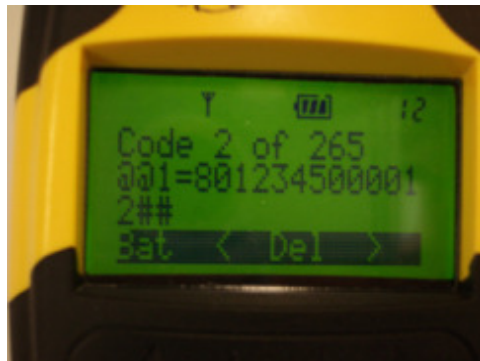
X = 13 digits

$$Y = 13107 / (13 + 30) \rightarrow Y = 304 \text{ EAN-13 barcodes.}$$

Example 2:

Using a Powerscan M8300 DK and EAN-13 codes with the option of quantity/code enabled. Will total 19 bytes for each record (13 digits of the EAN-13 and 6 for the other elements of the record) as described below:

@@ → Header of the record
 1 → Quantity of code
 = → Separator between Quantity and code
8012345000012
 → Barcode of data
 ## → Terminator of the record



The calculation is:

M = 13107 bytes (12.8 x 1024)

X = 19 digits

O = 30 bytes

$$Y = 13107 / (19 + 30) \rightarrow Y = 267 \text{ EAN-13 barcodes}$$