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Barcode Guide

Linear Barcodes

Bookland (UPC/EAN Supplemental)
EAN-8/EAN-13
CODABAR
CODE 39
CODE 93
CODE 128
Interleaved 2 of 5 (I 2/5)
Industrial 2 of 5
Matrix 2 of 5
MSI
POSTNET
UCC/EAN-128

2D Barcodes

Data Matrix
Maxicode
PDF417
Micro PDF
Truncated PDF
QR Code

1D Barcode Types

Barcodes that can be printed with Sato M10e Thermal Printer

Bookland (UPC/EAN)

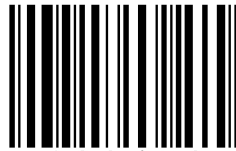


Length: Fixed length, 13 chars
+ 5 digit price code

Char Set: A-Z, 0-9

Special Barcode that represents ISBN numbers and pricing information on books. Uses EAN barcodes and converts to EAN 13 format followed by 5 digit price code

Code 128



1 2 3 4 5 6

Length: Variable

Char Set: ASCII (128 chars)

Modern type of barcode. Highly compressed data. Common barcode.

Code 128A



Length: Variable

Char Set: Uppercase letters and control characters

Subcode of Code 128. Normally not used - recommend Code 128 or EAN 128

Code 128B



Length: Variable

Char Set: Uppercase and lowercase characters

Subcode of Code 128. Normally not used - recommend Code 128 or EAN 128

Code 128C



Length: Variable

Char Set: Numeric 0-9

Subcode of Code 128. Normally not used - recommend Code 128 or EAN 128

EAN-128/UCC-128



Length: Variable

Char Set: ASCII (128 Chars)

Special form of Code 128. Extensively used in Goods and Pallets for Commerce and Industry. Multiple coding of more than one data using AI's

Codabar



Length: Variable

Char Set: 0-9, 6 special characters

Old Barcode type. Often used in medicine in the past.

Code 39 (3 of 9)



Length: Variable

Char Set: A-Z, 0-9, 5 special characters

Widely used barcode, decoded by virtually any barcode reader. Self checking type.

Code 93 (9 of 3)



Length: Variable

Char Set: A-Z, 0-9, 5 special characters

Same character set as Code 39 but more compacted that requires less space.

1D Barcode Types

Barcodes that can be printed with Sato M10e Thermal Printer

EAN-13



Length: 13

Char Set: Numeric 0-9

Primarily used in supermarkets to identify product at point of sales.

EAN-8



Length: 8

Char Set: Numeric 0-9

Short version of EAN-13 for extremely small products.

Interleaved 2 of 5



Length: Variable

Char Set: Numeric 0-9

Common code used outside Retail. Used commercially on 135 film and on cartons of products.

Industrial 2 of 5



Length: Variable

Char Set: Numeric 0-9

Old Barcode. Not efficient thus rarely used.
Self checking

Matrix 2 of 5



Length: Variable

Char Set: Numeric 0-9

Old Numeric-only code. Higher density than other barcodes. Not recommended for new applications

MSI (Plessey)



Length: Variable

Char Set: Numeric 0-9

Old barcode. Was used for goods and books in the past

POSTNET



Length: Variable

Char Set: A-Z, 0-9

Royal Mail 4 State Customer Code created for automated mail sortation process.

2D Barcode Types

Barcodes that can be printed with Sato M10e Thermal Printer

Data Matrix



Length: Variable
Char Set: ASCII

2D barcode for encoding mass text or data in only one code.

Maxicode



Length: Variable (Fixed Size)
Char Set: ASCII

Intended primarily for encoding addresses for postal and delivery applications. Low information content.

PDF417



Length: Variable
Char Set: ASCII

2D barcode for encoding mass text or data in only one code.

Micro PDF



Length: Variable
Char Set: ASCII

Designed for applications requiring greater efficiency. 2D barcode with lower barcode capacity than PDF417.

Truncated PDF



Length: Variable
Char Set: ASCII

Similar to PDF417 barcode except missing one data codeword. Smaller than PDF417, but less tolerable to damage rendering the barcode unreadable

QR Code



Length: Variable
Char Set: ASCII

2D barcode consisting of a square array of modules located at three corners.