

# Code 128

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see also: [UCC/EAN-128](#), [GS1-128](#)

## 1 Example



## 2 Structure

The configuration for the default implementation is:

```
<barcode>
  <code128>
    <height>{length:15mm}</height>
    <module-width>{length:0.21mm}</module-width>
    <codesets>{string:ABC}</codesets>
    <quiet-zone enabled="{boolean:true}">{length:10mw}</quiet-zone>
    <human-readable>
      <placement>{human-readable-placement:bottom}</placement>
      <font-name>{font-name:Helvetica}</font-name>
      <font-size>{length:8pt}</font-size>
    </human-readable>
  </code128>
</barcode>
```

## 3 Notes

- The height should be at least 0.15 times the barcode's length or 0.25 inches.
- Code 128 codesets can be restricted to A, B, C or a combination of the three. Example: "AB" enables A and B. "C" just enables C and therefore only allows an even number of digits.

## 4 Message format

- Valid characters: The full 7 bit ASCII (US-ASCII) character set is supported
- Functions 1 to 4 may be used. They are encoded as ASCII characters 0xF1 (241), 0xF2 (242), 0xF3 (243) and 0xF4 (244) in the message.
- Unlike with barcode fonts, the start, stop and checksum character shall NOT be part of the message as they are added automatically.