

# Primary Setup Code

Every Matter Certified end-device must include a Primary Setup Code either on the device, in the accompanying in-box documentation, or in some cases on a display or via an app.

A Primary Setup Code is a distinct graphic object that includes the Matter logo/lockup, mandatory numeric setup code, and optional QR setup code. All variants on this page are acceptable for use as a Primary Setup Code.

Note: Two versions of the numeric setup code can be used, with 11 digits for standard setup or with 21 digits for custom setup. Please refer to the Matter specification for more detail.

### Design

The Alliance provides templates for the variants shown here. It is recommended to use the largest versions, with more compact versions provided for flexibility. In cases where the setup code needs to be constructed manually, see the below guidance.

### Numeric code specifications:

- CSA Digits font is required (provided by the Alliance)
- Digits are monospaced
- Min 6pt font size (scale setup code proportionately)
- For 11 or 21-digit codes, the first row spacing is 4-3-4
- For 21-digit codes, the second row spacing is 4-3-2-1
- QR code width should be that of the Numeric code

### QR Code specifications:

- ISO-IEC 18004
- Quiet zone on all sides of 3mm (larger) 2mm (smaller)
- Use of larger dimension codes for recognition recommended

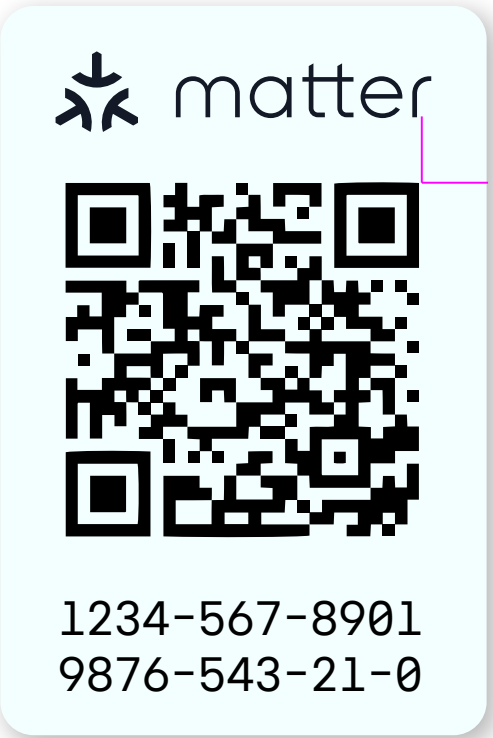
### General specifications:

- The Matter logo lockup should be the width of the QR code
- Use Day color as the background, or white as alternate
- Use border of 1pt when near other items, if background does not provide sufficient contrast, or printing in monochrome
- Do not change the relative scale of the elements

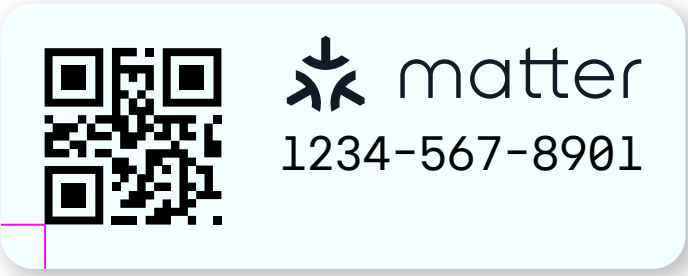
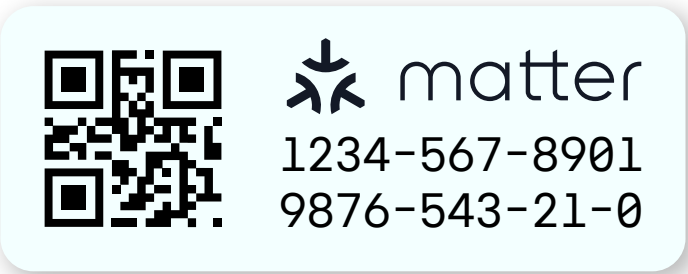
22 x 31 mm



22 x 33 mm



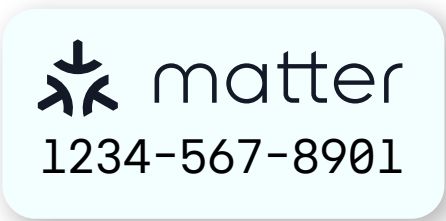
31 x 12 mm



With 1pt (0.35mm) Border



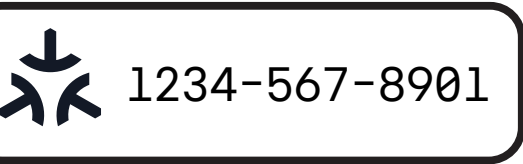
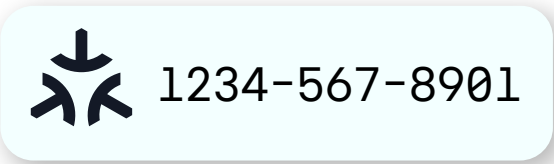
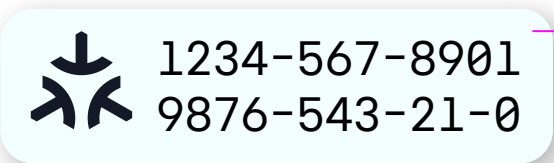
20 x 9.5 mm



20 x 11.5 mm



25 x 7 mm



QR and Numeric code are for illustration only.  
Please refer to the Matter specification for details on generating and formatting setup codes.



# Secondary Setup Code

In addition to the Primary Setup Code, a Secondary Setup Code may be used when applied to the product itself. The design parameters of the Secondary Setup Code are flexible, to accommodate a wide variety of products and physical limitations.

### Design

The following recommendations provide guidance for constructing a Secondary Setup Code. These allow for vendor-specific variations, keeping with brand guidelines as much as possible.

#### Numeric code recommendations:

- CSA Digits font is recommended (provided by the Alliance)
- Digits are monospaced
- 6pt font size recommended
- For 11 or 21-digit codes, the first row is 4-3-4
- For 21-digit codes, the second row is 4-3-2-1

#### QR Code recommendations:

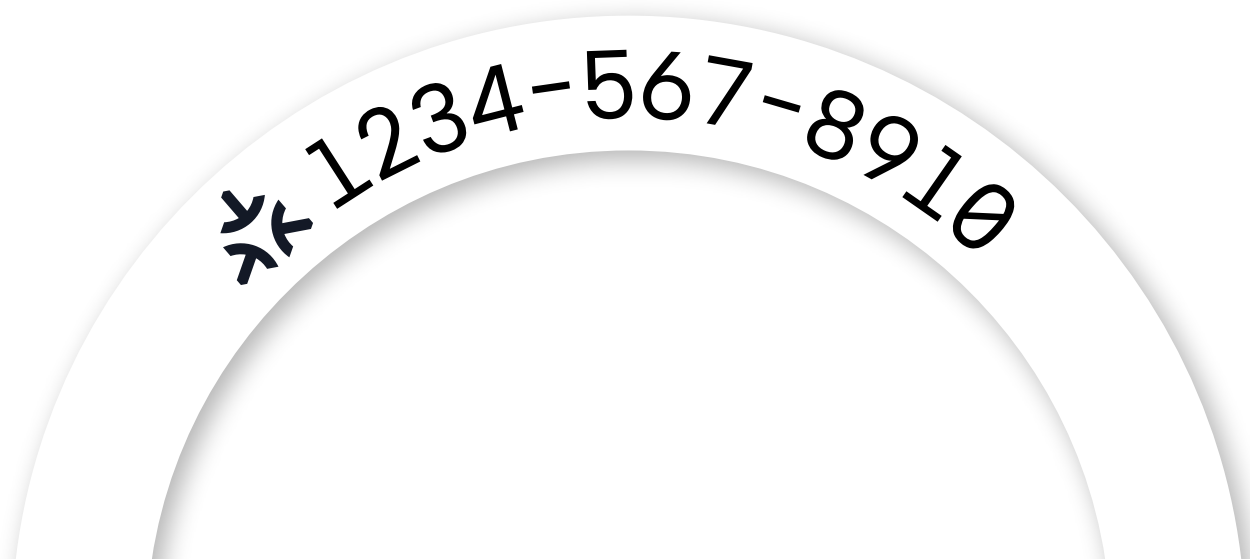
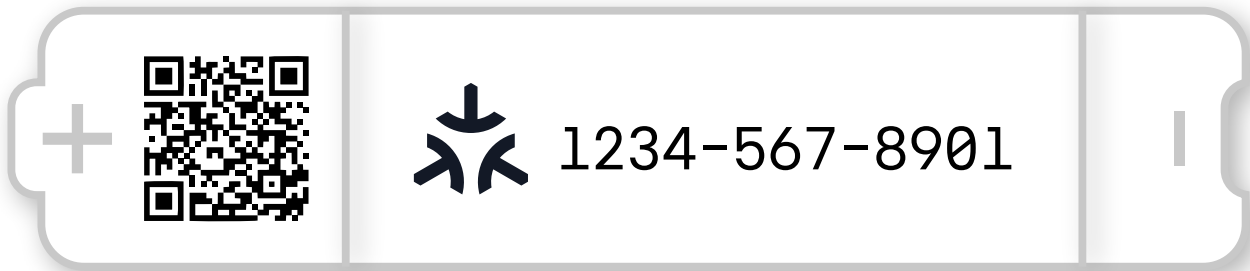
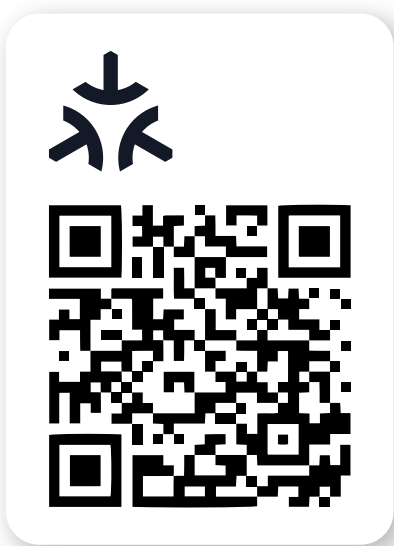
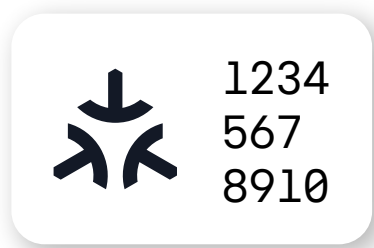
- ISO-IEC 18004
- Quiet zone of 4 modules recommended, 2 modules minimum

#### General specifications:

- When used, may be used only on a physical product, and in addition to the Primary Setup Code
- Must indicate that the Secondary Code is a Matter setup code (lockup, logo, or text with the word Matter, title case or all caps)

## Considerations for all Setup Codes

- Avoid shiny surfaces; matte is best
- Avoid porous, bumpy, or wrinkled substrates
- Consider useability risks e.g. could the Setup Code wear over time, or get damaged during product installation?
- Manufacturer is responsible for ensuring the QR is readable by popular devices and apps



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Please refer to the Matter specification for details on generating and formatting setup codes.

