

Specifying inlay placement for ZQ630 RFID mobile printer

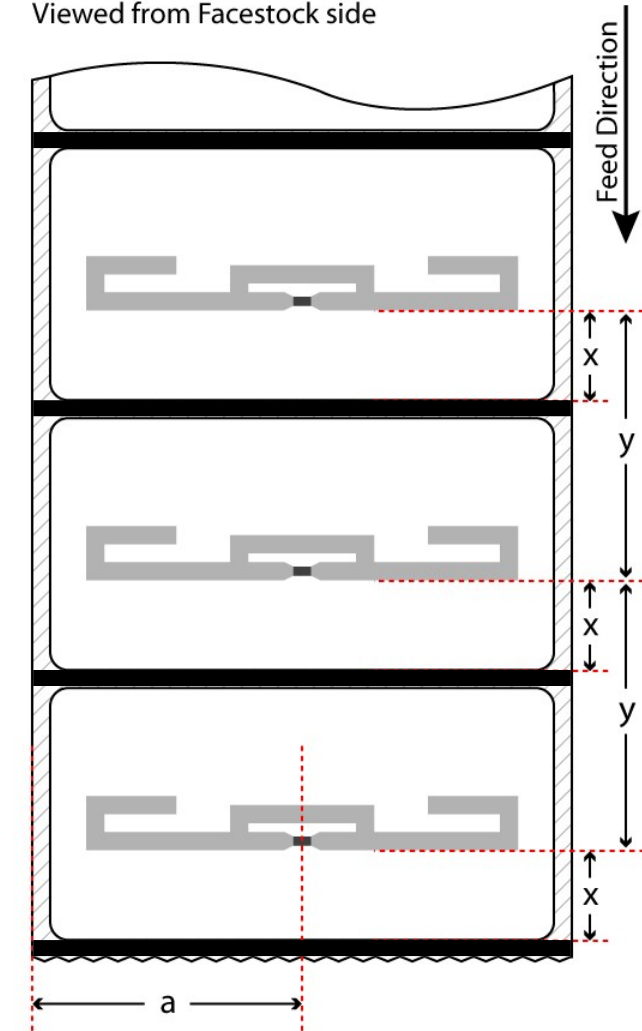
The Zebra ZQ630R does not require specific inlay placements. Its patent coupler antenna and advanced RFID calibration algorithm automatically configures the optimal RFID settings for the inlay and label being used. See the ZQ630R User's Manual and RFID ZPL Programming Guide 3 for more details.

Zebra manufactures RFID labels optimized for ZQ630R. Details on our current offering and pricing can be found here: www.zebra.com/us/en/products/supplies/rfid-labels-tags.html

Best practices to consider when selecting RFID media for ZQ630R:

- Only Direct Thermal media with Black Mark sensing is supported.
- Maximum roll OD is 2.6". Media should be wound on 0.75" **OR** 1.375" ID core (Note: Printers can be ordered with either size roll holder – which is reversible if necessary)
- Inlays should be centered across the media width with a production tolerance of less than +/- 2mm (parameter 'a' in the diagram on the right).
- For labels longer than ~1", place inlays ~10-15mm from the trailing edge of the black mark with a production tolerance of less than +/- 2mm (parameter 'x' in the diagram on the right).
- Small labels with a pitch of less than 1" (parameter 'y' in the diagram on the right) may require the printer to backfeed a short distance to align the inlay for encoding. This can be minimized or eliminated by designing the label to maximize the distance 'x', as shown in the diagram on the right. An inlay position 'x' of at least 10mm is ideal.
- The RFID encoder is located in the center of the media path, directly behind the platen roller. The approximate location of the encode zone is shown below.
- Always test RFID media before manufacturing or purchasing a large quantity.

Viewed from Facestock side



Approximate location of RFID Encode Zone

Parameter	Name	Definition
a (mm)	Inlay Center	Left liner edge to inlay center.
x (mm)	Inlay Position	Trailing edge of mark to leading edge of inlay antenna
y (mm)	Inlay Pitch	Inlay antenna leading edge to inlay antenna leading edge.

Disclaimer: the information contained in this guideline is subject to the warranty disclaimers, limitations of liability and indemnification provisions contained in the zebra technologies corporation inlay guidelines terms of use. Such terms of use may be found at www.zebra.com/transponders. Guidelines are subject to change without notice.