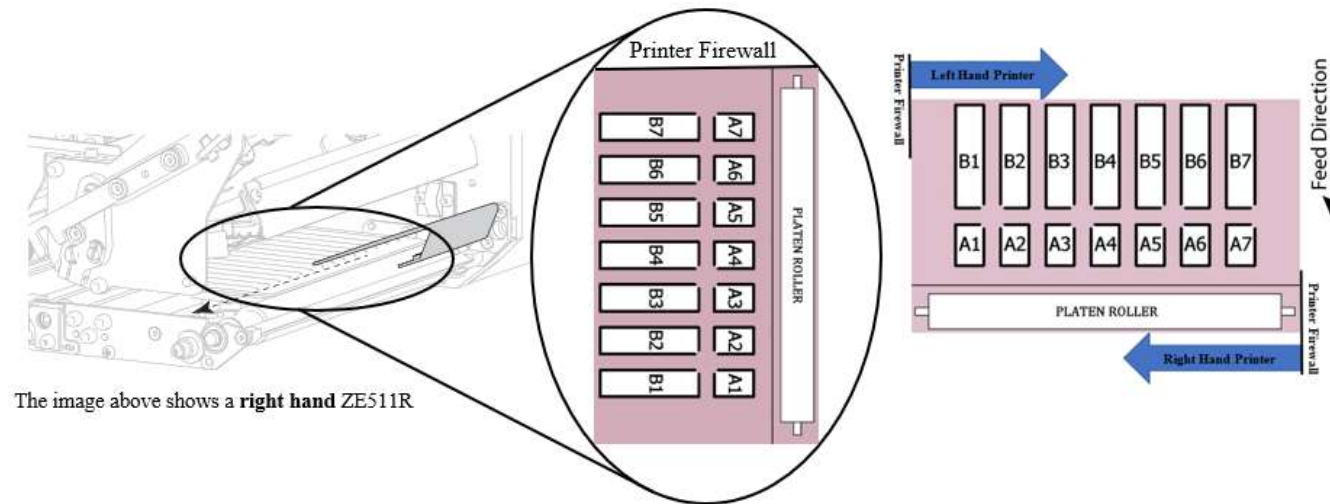


### Specifying inlay placement for ZE511 and ZE521 RFID Print Engines

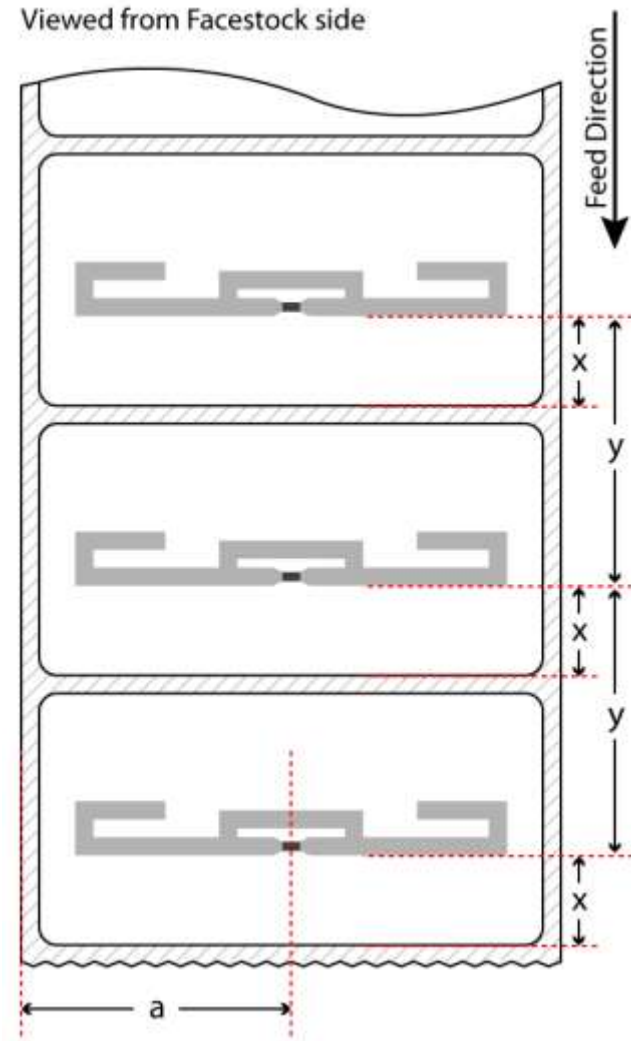
The Zebra ZE511 and ZE521 Series RFID print engines do not require specific inlay placements. Adaptive encoding technology automatically selects the optimal RFID settings for the inlay and label size being used. Zebra's adaptive array antenna consists of 14 individual encoding elements as shown in the diagram below. Row A of antennas is ideal for labels less than ~1" long. Row B of antennas is ideal for labels ~1" or longer.

#### Best practices when specifying RFID media for ZE511 and ZE521 Series RFID Print Engines:

- **4" ZE511R:** The columns of the encoding array are spaced to support inlays centered on media widths of 1", 2", 3", and 4". Inlays should be placed at 0.5", 1", 1.5" or 2" (+/- 3mm) from the liner edge (parameter 'a' in the diagram).
- **6" ZE521R:** The columns of the encoding array are spaced to support inlays centered on media widths of 1", 2", 3", 4", 5", and 6". Inlays should be placed at 0.5", 1", 1.5", 2", 2.5", or 3" (+/- 3mm) from the liner edge (parameter 'a' in the diagram) as measured from the firewall.
- Labels with a pitch of less than ~1" (parameter 'y' in the diagram) may require additional backfeed prior to encoding. If necessary, RFID calibration will automatically select the backfeed distance.
- For labels longer than ~1", place inlays >15 mm from the leading edge of the label (parameter 'x') for optimal performance.
- Note: Left- and Right-hand units may select different encoding antennas.



The image above shows a **right hand ZE511R**



Parameter	Name	Definition
<b>a (mm)</b>	Inlay Center	Left liner edge to inlay center.
<b>x (mm)</b>	Inlay Position	Label Start to inlay antenna leading edge
<b>y (mm)</b>	Inlay Pitch	Inlay antenna leading edge to inlay antenna leading edge.