

$$\vec{a} \begin{pmatrix} 0 & 0 & a_2 & 0 & a_4 & a_5 & 0 & a_7 \end{pmatrix} \times \begin{matrix} PE0 \\ PE1 \\ PE2 \\ PE3 \end{matrix} \begin{pmatrix}
 w_{0,0} & 0 & w_{0,2} & 0 & w_{0,4} & w_{0,5} & w_{0,6} & 0 \\
 0 & w_{1,1} & 0 & w_{1,3} & 0 & 0 & w_{1,6} & 0 \\
 0 & 0 & w_{2,2} & 0 & w_{2,4} & 0 & 0 & w_{2,7} \\
 0 & w_{3,1} & 0 & 0 & 0 & w_{0,5} & 0 & 0 \\
 0 & w_{4,1} & 0 & 0 & w_{4,4} & 0 & 0 & 0 \\
 0 & 0 & 0 & w_{5,4} & 0 & 0 & 0 & w_{5,7} \\
 0 & 0 & 0 & 0 & w_{6,4} & 0 & w_{6,6} & 0 \\
 w_{7,0} & 0 & 0 & w_{7,4} & 0 & 0 & w_{7,7} & 0 \\
 w_{8,0} & 0 & 0 & 0 & 0 & 0 & 0 & w_{8,7} \\
 w_{9,0} & 0 & 0 & 0 & 0 & 0 & w_{9,6} & w_{9,7} \\
 0 & 0 & 0 & 0 & w_{10,4} & 0 & 0 & 0 \\
 0 & 0 & w_{11,2} & 0 & 0 & 0 & 0 & w_{11,7} \\
 w_{12,0} & 0 & w_{12,2} & 0 & 0 & w_{12,5} & 0 & w_{12,7} \\
 w_{13,0} & w_{13,2} & 0 & 0 & 0 & 0 & w_{13,6} & 0 \\
 0 & 0 & w_{14,2} & w_{14,3} & w_{14,4} & w_{14,5} & 0 & 0 \\
 0 & 0 & w_{15,2} & w_{15,3} & 0 & w_{15,5} & 0 & 0
 \end{pmatrix} = \begin{matrix} \vec{b} \end{matrix} \begin{pmatrix} b_0 \\ b_1 \\ -b_2 \\ b_3 \\ -b_4 \\ b_5 \\ b_6 \\ -b_7 \\ -b_8 \\ -b_9 \\ b_{10} \\ -b_{11} \\ -b_{12} \\ b_{13} \\ b_{14} \\ -b_{15} \end{pmatrix} \xRightarrow{ReLU} \begin{matrix} \end{matrix} \begin{pmatrix} b_0 \\ b_1 \\ 0 \\ b_3 \\ 0 \\ b_5 \\ b_6 \\ 0 \\ 0 \\ 0 \\ b_{10} \\ 0 \\ 0 \\ b_{13} \\ b_{14} \\ 0 \end{pmatrix}$$