

$$q0_0 \text{ --- } \boxed{\begin{matrix} R_Z \\ -\theta/2 \end{matrix}} \text{ ---}$$

$$q0_1 \text{ --- } \boxed{\begin{matrix} R_Z \\ \theta/2 \end{matrix}} \text{ ---}$$

$$q0_2 \text{ --- } \boxed{\begin{matrix} R_Z \\ -\theta/2 \end{matrix}} \text{ ---}$$

$$q0_3 \text{ --- } \boxed{\begin{matrix} R_Z \\ \theta/2 \end{matrix}} \text{ ---}$$

$$q1_0 \text{ --- } \boxed{\begin{matrix} R_Z \\ -\theta/2 \end{matrix}} \text{ ---}$$

$$q1_1 \text{ --- } \boxed{\begin{matrix} R_Z \\ \theta/2 \end{matrix}} \text{ ---}$$

$$q1_2 \text{ --- } \boxed{\begin{matrix} R_Z \\ -\theta/2 \end{matrix}} \text{ ---}$$

$$q1_3 \text{ --- } \boxed{\begin{matrix} R_Z \\ \theta/2 \end{matrix}} \text{ ---}$$