



Figure 1: Encoder

$$\underline{q}^{3 \times 4} = \underline{n}^{3 \times 4}) \quad (1a)$$

$$\underline{k}^{3 \times 4} = \underline{n}^{3 \times 4}) \quad (1b)$$

$$\underline{n}^{3 \times 4} = \underline{N}^{3 \times 4}, \underline{F}^{3 \times 4}) \quad (1c)$$

$$\underline{F}^{3 \times 4} = \underline{N}^{3 \times 4}) \quad (1d)$$

$$\underline{N}^{3 \times 4} = \underline{p}^{3 \times 4}, \underline{O}^{3 \times 4}) \quad (1e)$$

$$O^{3\times 4} = Q^{3\times 4}, K^{3\times 4}, V^{3\times 4}) \tag{1f}$$

$$Q^{3\times 4} = p^{3\times 4}) \tag{1g}$$

$$K^{3\times 4} = p^{3\times 4}) \tag{1h}$$

$$V^{3\times 4} = p^{3\times 4}) \tag{1i}$$

$$p^{3\times 4} = R^{3\times 4}) \tag{1j}$$

$$R^{3\times 4} =) \tag{1k}$$