$$\boldsymbol{h}_t = f^h(W^h \phi^h(\boldsymbol{x}_t, \boldsymbol{h}_{t-1}; \boldsymbol{\xi}^h) + \boldsymbol{b}^h)$$

$$\boldsymbol{y}_t = f^y(W^{yh} \phi^y(\boldsymbol{h}_t; \boldsymbol{\xi}^y) + \boldsymbol{b}^y)$$