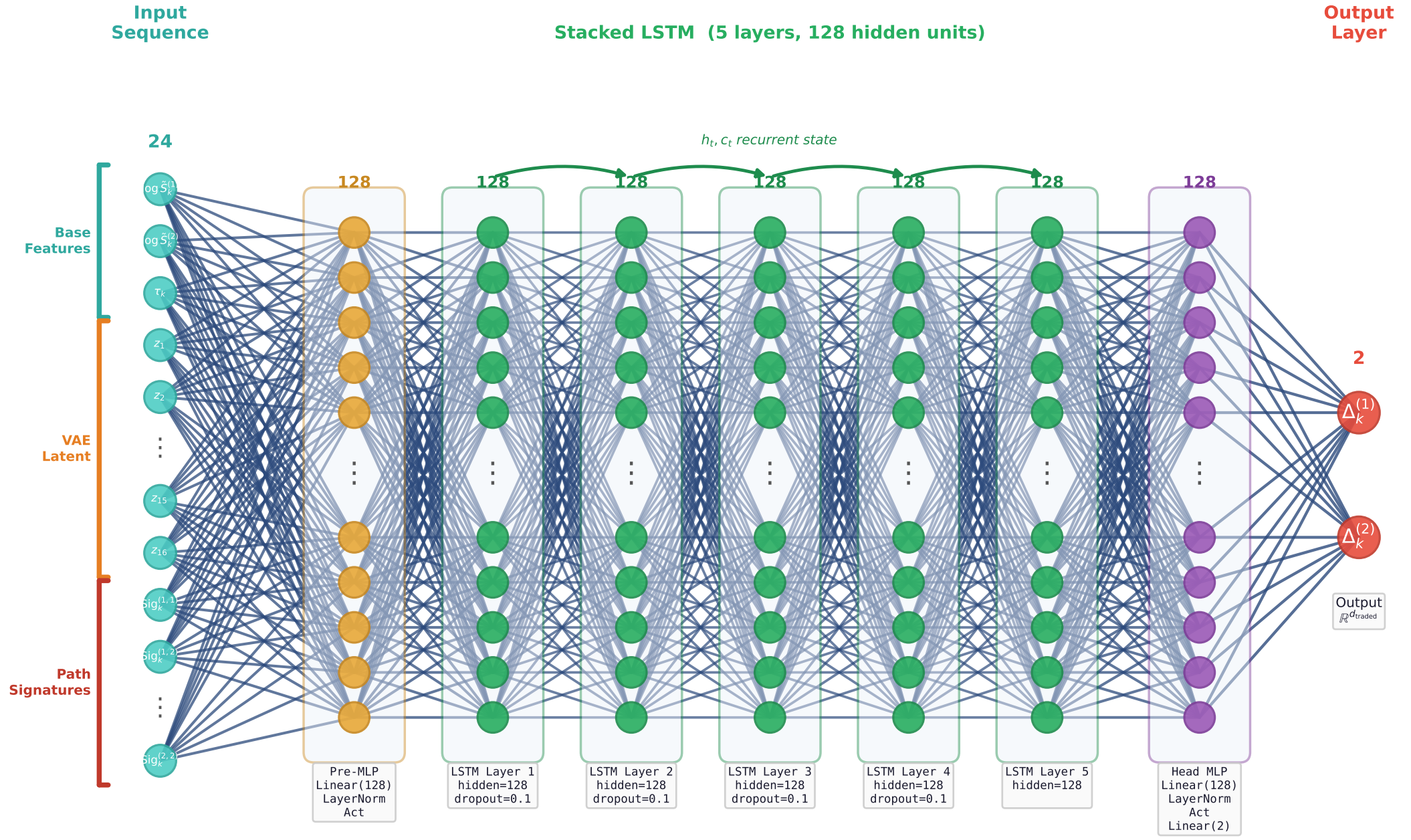


# LSTM-5 Hedger Architecture — $\text{NN}_1 : \mathbf{X}_{0:N} \mapsto \Delta_{0:N}^{(1)}$



$$\mathbf{h}_k = \text{PreMLP}(\mathbf{X}_k), \quad (\mathbf{o}_k, \mathbf{h}_k, \mathbf{c}_k) = \text{LSTM}(\mathbf{h}_k, \mathbf{h}_{k-1}, \mathbf{c}_{k-1})$$

$$\Delta_k^{(1)} = \text{HeadMLP}(\mathbf{o}_k) \in \mathbb{R}^{d_{\text{traded}}}$$