Deep Adaptive Input Normalization Layer $\mathbf{x}_{j}^{(i)} = \mathbf{w}_{a}\mathbf{a}^{(i)} \qquad \qquad \mathbf{\tilde{x}}_{j}^{(i)} = (\mathbf{x}_{j}^{(i)} - \mathbf{W}_{a}\mathbf{a}^{i}) \otimes \mathbf{W}_{b}\mathbf{b}^{(i)} \qquad \qquad \mathbf{\tilde{\tilde{x}}}_{j}^{(i)} = \mathbf{\tilde{x}}_{j}^{(i)} \otimes \operatorname{sigm}(\mathbf{W}_{c}\mathbf{c}^{(i)} + \mathbf{d})$

