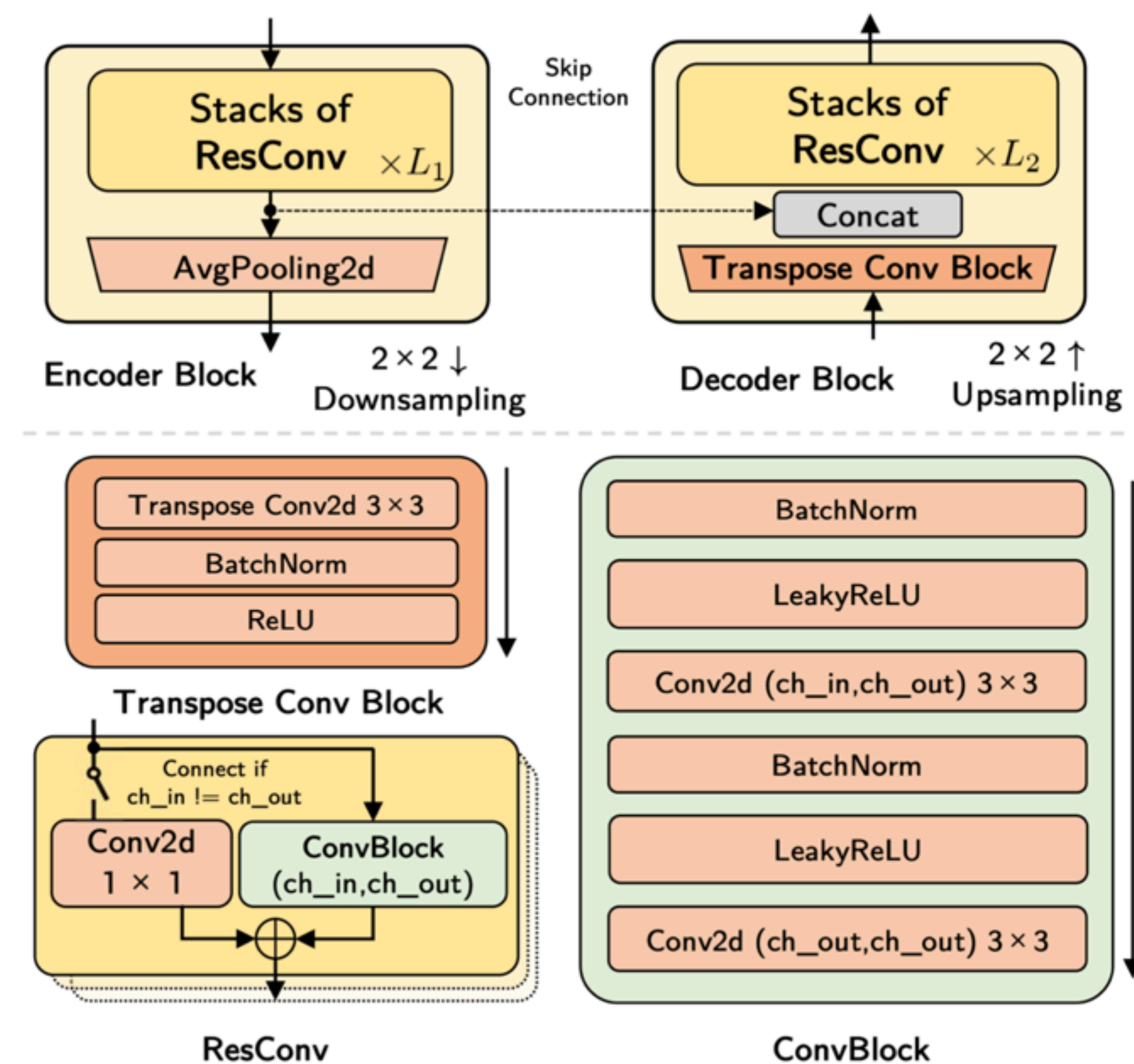
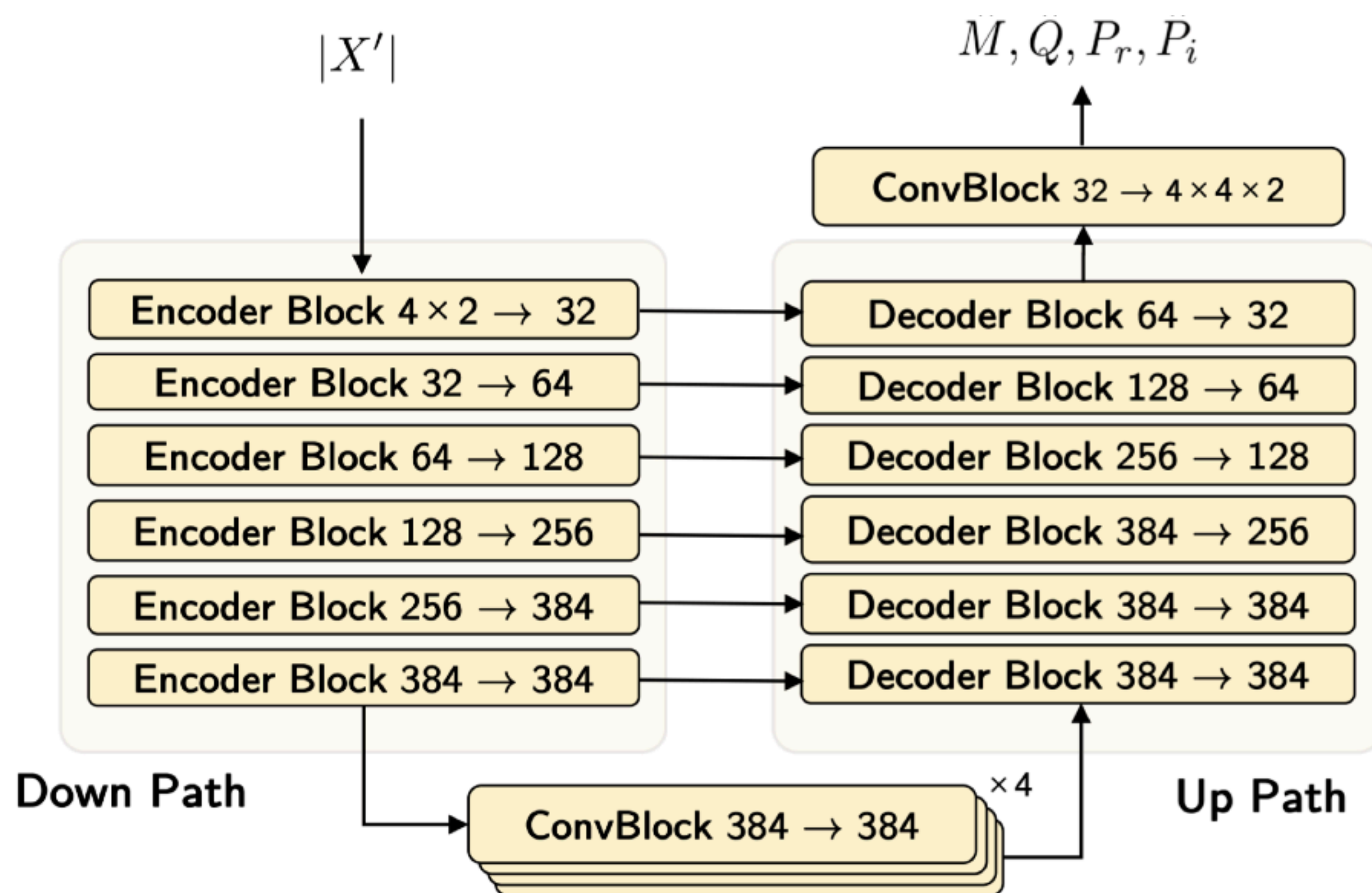


CWS-PResUNet

Step2: Phase-aware ResUNet



CWS-PResUNet

Step3: subband signal reconstruction

- Input:

- Subband magnitude spectrogram: $|X'|_{8 \times T \times \frac{F}{4}}$

- Estimate:

- Subband phase variation: \hat{P}_i, \hat{P}_j
- Subband IRM: $\text{sigmoid}(\hat{M})$
- Subband magnitude residual: \hat{Q}

- Operation:

- $\cos \angle \hat{\theta} = \hat{P}_r / (\sqrt{\hat{P}_r^2 + \hat{P}_i^2}), \sin \angle \hat{\theta} = \hat{P}_i / (\sqrt{\hat{P}_r^2 + \hat{P}_i^2})$
- $\hat{S}' = \text{relu}(|X'| \odot \text{sigmoid}(\hat{M}) + \hat{Q}) \exp^{j(\angle X' + \angle \hat{\theta})}$

