Related works
Frequency domain methods

- What's the difference between image and spectrogram (spec)?

  - Overlapping pixel.

    - Ignore: Ideal binary mask (IBM) estimation.

    - Otherwise: Ideal ratio mask (IRM) estimation.

  - Spectrogram has complexed value

    - Ignore: Estimate IRM on magnitude spec, reuse mixture phase.

    - Otherwise: Estimate complex Ideal ratio mask (cIRM)

Related works
Frequency domain methods

- MMDenseNet [Takahashi et al. 2017]

- MMDenseLSTM [Takahashi et al. 2018]

- OpenUnmix [Stöter et.al 2019]

- D3Net [Takahashi et al. 2021]
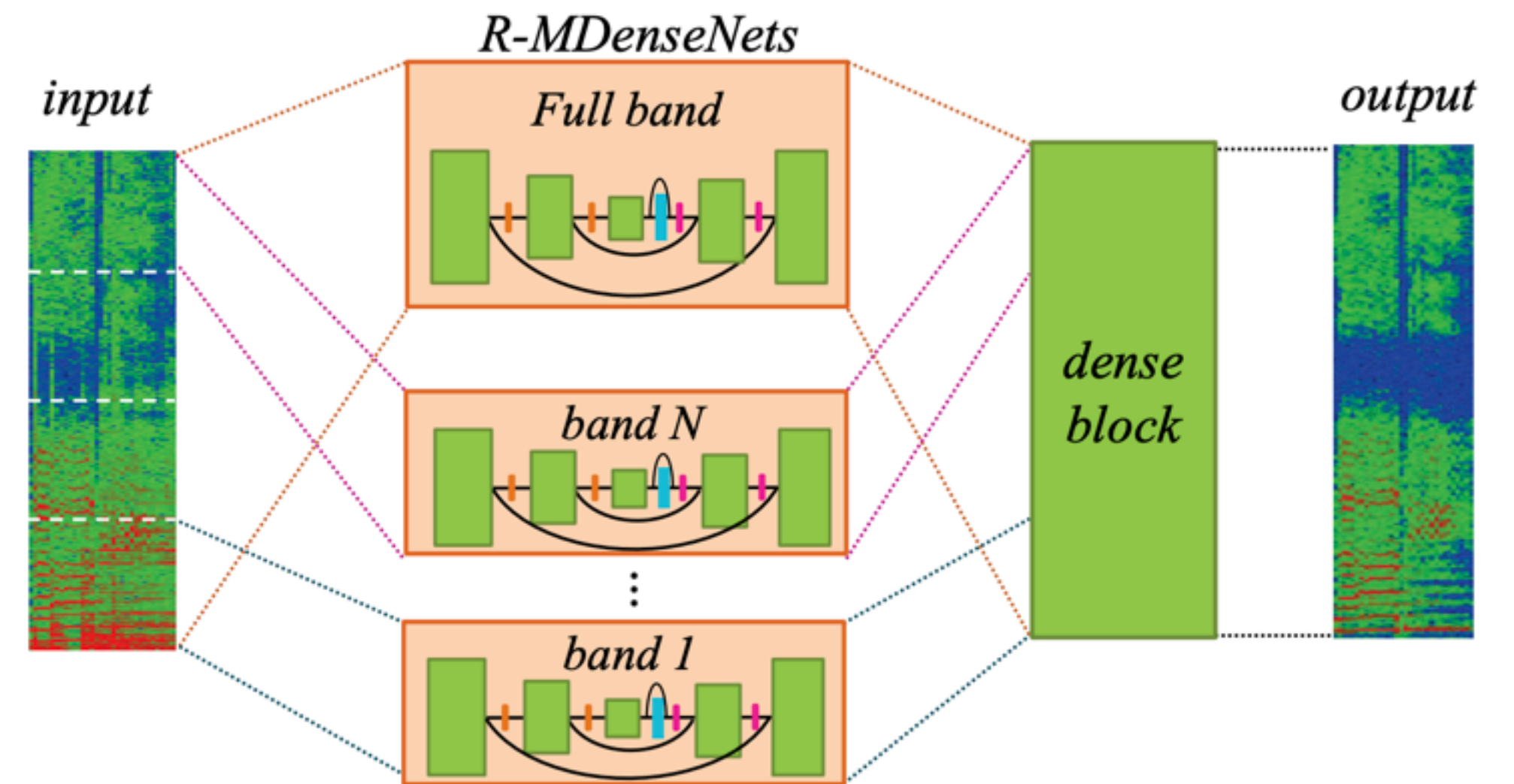
- ResUNetDecouple+ [Kong et al. 2021]

Fig. 3. MMDenseLSTM architecture. Outputs of MDenseL-STM dedicated to different frequency band including the full band are concatenated and the final dense block integrates features from these bands to create the final output.