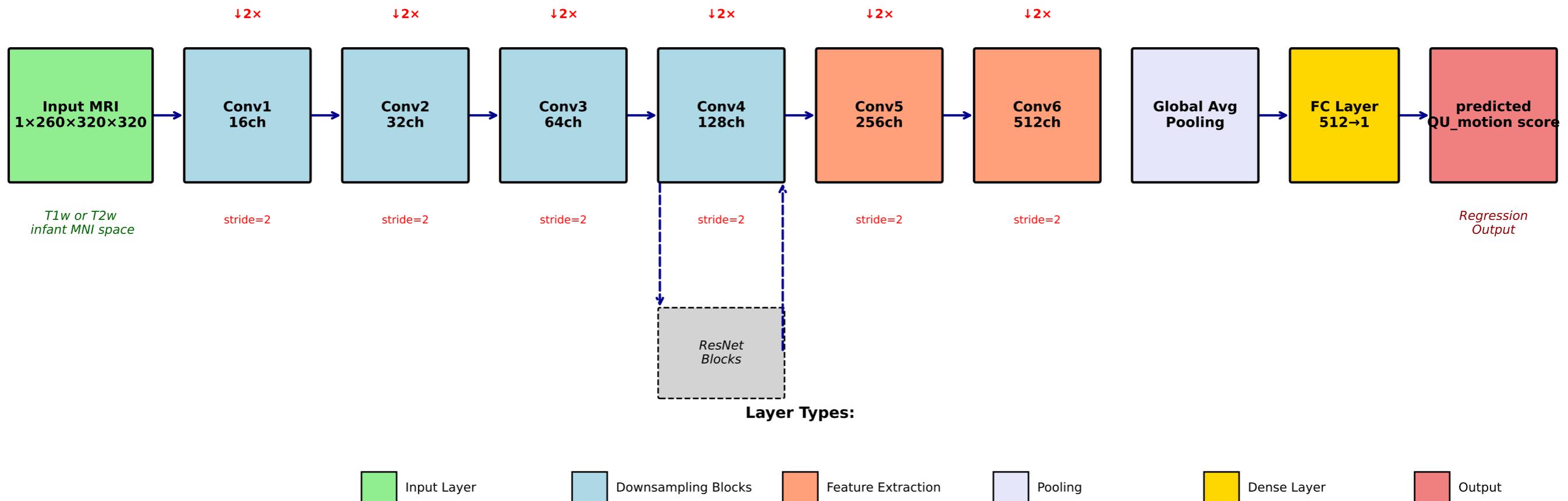


# Automated-QC (Anat) ResNet Architecture (MONAI Regressor)

*3D Brain MRI → Predicted QU\_motion score*



## Key Architecture Features:

- 3D Convolutions throughout
- Progressive downsampling (strides=2)
- 6 convolutional stages
- Channel progression:  $16 \rightarrow 32 \rightarrow 64 \rightarrow 128 \rightarrow 256 \rightarrow 512$
- Global average pooling → Dense layer → Single output

*Input: T1w or T2w infant MNI MRI (260×320×320 voxels) | Output: Predicted QU\_motion score*