

Lightweight Hybrid Model for RF Signal Classification

Parameters: 1.3M — Accuracy: 65.38% — Inference: 2.3ms

I/Q
Signal
(2×128)

Permute
(128×2)
Complex Conv1D
filters
Complex BatchNorm
Complex ReLU

Complex MaxPool1D
ResBlock-1
filters

ResBlock-2
filters

ResBlock-3
filters

Complex GlobalAvgPool

Complex Dense 512

Complex Magnitude + ReLU

Dense 256

Dropout rate

Softmax

Output
Classes

