

Vertex Calculation Complexity

High

GaAN

SSE

$O((f + d_{in}) * d_{out})$

GGNN

$O(d_{in} * d_{out})$

13 parameters

Two  
Sub-layers

Four  
Sub-layers

Low

$O(1)$

$O(d_{in})$

$O(d_{in} * d_{out})$

Edge  
Calculation  
Complexity

High

GAT-avg

GAT-concat

$O(d_{in} * d_{out})$

K parameter

$O(d_{in} * d_{out})$

1 parameter

GraphSAGE-Mean

Neural FPs

GCN

AGCN

ChebNet

$O(d_{out})$

GraphSAGE-pool

$O(1)$

Low