Layers	Output Size	DenseNet-121	DenseNet-169	DenseNet-201	DenseNet-264
Convolution	112 × 112	7×7 conv, stride 2			
Pooling	56 × 56	3×3 max pool, stride 2			
Dense Block	56 × 56	$\begin{bmatrix} 1 \times 1 \text{ conv} \\ \end{bmatrix} \times 6$	$\begin{bmatrix} 1 \times 1 \text{ conv} \\ \end{bmatrix} \times 6$	$\begin{bmatrix} 1 \times 1 \text{ conv} \\ \end{bmatrix} \times 6$	$\begin{bmatrix} 1 \times 1 \text{ conv} \\ \times 6 \end{bmatrix}$
(1)		$\begin{bmatrix} 3 \times 3 \text{ conv} \end{bmatrix}$	$\begin{bmatrix} 3 \times 3 \text{ conv} \end{bmatrix}^{\wedge 0} \begin{bmatrix} 3 \times 3 \text{ conv} \end{bmatrix}^{\wedge 0} \begin{bmatrix} 3 \times 3 \text{ conv} \end{bmatrix}$	$\begin{bmatrix} 3 \times 3 \text{ conv} \end{bmatrix}$	
Transition Layer	56 × 56	$1 \times 1 \text{ conv}$			
(1)	28×28	2×2 average pool, stride 2			
Dense Block	28×28	$\begin{bmatrix} 1 \times 1 \text{ conv} \\ 2 & 2 \end{bmatrix} \times 12$	$\begin{bmatrix} 1 \times 1 \text{ conv} \\ 3 \times 3 \text{ conv} \end{bmatrix} \times 12 \begin{bmatrix} 1 \times 1 \text{ conv} \\ 3 \times 3 \text{ conv} \end{bmatrix} \times 12$	$\begin{bmatrix} 1 \times 1 \text{ conv} \\ 1 \times 12 \end{bmatrix}$	
(2)		$\begin{bmatrix} 3 \times 3 \text{ conv} \end{bmatrix}$		$\begin{bmatrix} 3 \times 3 \text{ conv} \end{bmatrix} $	$\begin{bmatrix} 3 \times 3 \text{ conv} \end{bmatrix}$
Transition Layer	28×28	$1 \times 1 \text{ conv}$			
(2)	14×14	2×2 average pool, stride 2			
Dense Block	14 × 14	$\begin{bmatrix} 1 \times 1 \text{ conv} \end{bmatrix} \times 24$	× 32 × 48	$\begin{bmatrix} 1 \times 1 \text{ conv} \end{bmatrix} \times 64$	
(3)		$\begin{bmatrix} 3 \times 3 \text{ conv} \end{bmatrix}^{24}$		$\begin{bmatrix} 3 \times 3 \text{ conv} \end{bmatrix}^{46}$	$\begin{bmatrix} 3 \times 3 \text{ conv} \end{bmatrix}$
Transition Layer	14 × 14	$1 \times 1 \text{ conv}$			
(3)	7 × 7	2 × 2 average pool, stride 2			
Dense Block	7 × 7	$\begin{bmatrix} 1 \times 1 \text{ conv} \\ 1 \times 16 \end{bmatrix}$	$\begin{bmatrix} 1 \times 1 \text{ conv} \\ 32 \end{bmatrix}$	$\begin{bmatrix} 1 \times 1 \text{ conv} \\ 32 \end{bmatrix}$	$\begin{bmatrix} 1 \times 1 \text{ conv} \\ 1 \times 48 \end{bmatrix}$
(4)		$\begin{bmatrix} 3 \times 3 \text{ conv} \end{bmatrix}^{\times 10}$	$\begin{bmatrix} 3 \times 3 \text{ conv} \end{bmatrix} \times 32$	$\begin{bmatrix} 3 \times 3 \text{ conv} \end{bmatrix} \times 32$	$\begin{bmatrix} 3 \times 3 \text{ conv} \end{bmatrix}^{\times 46}$
Classification	1 × 1	7×7 global average pool			
Layer		1000D fully-connected, softmax			