

Layer (type)	Output Shape	Param #	Connected to
input_image (InputLayer)	(32, 256, 256, 3)	0	-
rescaling_1 input_image[0][0] (Rescaling)	(32, 256, 256, 3)	0	
normalization_1 rescaling_1[0][0] (Normalization)	(32, 256, 256, 3)	0	
stem_conv (Conv2D) normalization_1[...]	(32, 128, 128, 32)	864	
stem_bn stem_conv[0][0] (BatchNormalizatio...	(32, 128, 128, 32)	128	
stem_activation (Activation)	(32, 128, 128, 32)	0	stem_bn[0][0]
block1a_project_co... stem_activation[...] (Conv2D)	(32, 128, 128, 16)	4,608	
block1a_project_bn block1a_project_... (BatchNormalizatio...	(32, 128, 128, 16)	64	

block1a_project_activation	(32, 128, 128, 16)	0
block2a_expand_conv	(32, 64, 64, 64)	9,216
block2a_expand_bn	(32, 64, 64, 64)	256
block2a_expand_activation	(32, 64, 64, 64)	0
block2a_project_conv	(32, 64, 64, 32)	2,048
block2a_project_bn	(32, 64, 64, 32)	128
block2b_expand_conv	(32, 64, 64, 128)	36,864
block2b_expand_bn	(32, 64, 64, 128)	512

block2b_expand_act...	(32, 64, 64, 128)	0
block2b_expand_b...		
(Activation)		
<hr/>		
block2b_project_co...	(32, 64, 64, 32)	4,096
block2b_expand_a...		
(Conv2D)		
<hr/>		
block2b_project_bn	(32, 64, 64, 32)	128
block2b_project_...		
(BatchNormalizatio...		
<hr/>		
block2b_drop	(32, 64, 64, 32)	0
block2b_project_...		
(Dropout)		
<hr/>		
block2b_add (Add)	(32, 64, 64, 32)	0
block2b_drop[0][...		
block2a_project_...		
<hr/>		
block3a_expand_conv	(32, 32, 32, 128)	36,864
block2b_add[0][0]		
(Conv2D)		
<hr/>		
block3a_expand_bn	(32, 32, 32, 128)	512
block3a_expand_c...		
(BatchNormalizatio...		
<hr/>		
block3a_expand_act...	(32, 32, 32, 128)	0
block3a_expand_b...		
(Activation)		
<hr/>		
block3a_project_co...	(32, 32, 32, 48)	6,144
block3a_expand_a...		

(Conv2D)			
block3a_project_bn	(32, 32, 32, 48)	192	
block3a_project_...	(BatchNormalizatio...		
block3b_expand_conv	(32, 32, 32, 192)	82,944	
block3a_project_...	(Conv2D)		
block3b_expand_bn	(32, 32, 32, 192)	768	
block3b_expand_c...	(BatchNormalizatio...		
block3b_expand_act...	(32, 32, 32, 192)	0	
block3b_expand_b...	(Activation)		
block3b_project_co...	(32, 32, 32, 48)	9,216	
block3b_expand_a...	(Conv2D)		
block3b_project_bn	(32, 32, 32, 48)	192	
block3b_project_...	(BatchNormalizatio...		
block3b_drop	(32, 32, 32, 48)	0	
block3b_project_...	(Dropout)		
block3b_add (Add)	(32, 32, 32, 48)	0	
block3b_drop[0][...			
block3a_project_...			

block4a_expand_conv block3b_add[0][0] (Conv2D)	(32, 32, 32, 192)	9,216	
block4a_expand_bn block4a_expand_c... (BatchNormalizatio...	(32, 32, 32, 192)	768	
block4a_expand_act... block4a_expand_b... (Activation)	(32, 32, 32, 192)	0	
block4a_dwconv2 block4a_expand_a... (DepthwiseConv2D)	(32, 16, 16, 192)	1,728	
block4a_bn block4a_dwconv2[... (BatchNormalizatio...	(32, 16, 16, 192)	768	
block4a_activation block4a_bn[0][0] (Activation)	(32, 16, 16, 192)	0	
block4a_se_squeeze block4a_activati... (GlobalAveragePool...	(32, 192)	0	
block4a_se_reshape block4a_se_squee... (Reshape)	(32, 1, 1, 192)	0	

block4a_se_reduce	(32, 1, 1, 12)	2,316
block4a_se_resha... (Conv2D)		
block4a_se_expand	(32, 1, 1, 192)	2,496
block4a_se_reduc... (Conv2D)		
block4a_se_excite	(32, 16, 16, 192)	0
block4a_activati... (Multiply)		
block4a_se_expan...		
block4a_project_co...	(32, 16, 16, 96)	18,432
block4a_se_excit... (Conv2D)		
block4a_project_bn	(32, 16, 16, 96)	384
block4a_project_... (BatchNormalizatio...		
block4b_expand_conv	(32, 16, 16, 384)	36,864
block4a_project_... (Conv2D)		
block4b_expand_bn	(32, 16, 16, 384)	1,536
block4b_expand_c... (BatchNormalizatio...		
block4b_expand_act...	(32, 16, 16, 384)	0
block4b_expand_b... (Activation)		
block4b_dwconv2	(32, 16, 16, 384)	3,456
block4b_expand_a...		

(DepthwiseConv2D)			
block4b_bn	(32, 16, 16, 384)	1,536	
block4b_dwconv2[...]	(BatchNormalizatio...		
block4b_activation	(32, 16, 16, 384)	0	
block4b_bn[0][0]	(Activation)		
block4b_se_squeeze	(32, 384)	0	
block4b_activati...	(GlobalAveragePool...		
block4b_se_reshape	(32, 1, 1, 384)	0	
block4b_se_squee...	(Reshape)		
block4b_se_reduce	(32, 1, 1, 24)	9,240	
block4b_se_resha...	(Conv2D)		
block4b_se_expand	(32, 1, 1, 384)	9,600	
block4b_se_reduc...	(Conv2D)		
block4b_se_excite	(32, 16, 16, 384)	0	
block4b_activati...	(Multiply)		
block4b_se_expan...			
block4b_project_co...	(32, 16, 16, 96)	36,864	
block4b_se_excit...	(Conv2D)		

block4b_project_bn	(32, 16, 16, 96)	384
block4b_project_... (BatchNormalizatio...		
block4b_drop	(32, 16, 16, 96)	0
block4b_project_... (Dropout)		
block4b_add (Add)	(32, 16, 16, 96)	0
block4b_drop[0][... block4a_project_...		
block4c_expand_conv	(32, 16, 16, 384)	36,864
block4b_add[0][0] (Conv2D)		
block4c_expand_bn	(32, 16, 16, 384)	1,536
block4c_expand_c... (BatchNormalizatio...		
block4c_expand_act...	(32, 16, 16, 384)	0
block4c_expand_b... (Activation)		
block4c_dwconv2	(32, 16, 16, 384)	3,456
block4c_expand_a... (DepthwiseConv2D)		
block4c_bn	(32, 16, 16, 384)	1,536
block4c_dwconv2[... (BatchNormalizatio...		

block4c_activation block4c_bn[0][0] (Activation)	(32, 16, 16, 384)	0
block4c_se_squeeze block4c_activati... (GlobalAveragePool...	(32, 384)	0
block4c_se_reshape block4c_se_squee... (Reshape)	(32, 1, 1, 384)	0
block4c_se_reduce block4c_se_resha... (Conv2D)	(32, 1, 1, 24)	9,240
block4c_se_expand block4c_se_reduc... (Conv2D)	(32, 1, 1, 384)	9,600
block4c_se_excite block4c_activati... (Multiply) block4c_se_expan...	(32, 16, 16, 384)	0
block4c_project_co... block4c_se_excit... (Conv2D)	(32, 16, 16, 96)	36,864
block4c_project_bn block4c_project_... (BatchNormalizatio...	(32, 16, 16, 96)	384
block4c_drop block4c_project_...	(32, 16, 16, 96)	0

(Dropout)			
block4c_add (Add)	(32, 16, 16, 96)	0	
block4c_drop[0][...]			
block4b_add[0][0]			
block5a_expand_conv	(32, 16, 16, 576)	55,296	
block4c_add[0][0]			
(Conv2D)			
block5a_expand_bn	(32, 16, 16, 576)	2,304	
block5a_expand_c...			
(BatchNormalizatio...			
block5a_expand_act...	(32, 16, 16, 576)	0	
block5a_expand_b...			
(Activation)			
block5a_dwconv2	(32, 16, 16, 576)	5,184	
block5a_expand_a...			
(DepthwiseConv2D)			
block5a_bn	(32, 16, 16, 576)	2,304	
block5a_dwconv2[...]			
(BatchNormalizatio...			
block5a_activation	(32, 16, 16, 576)	0	
block5a_bn[0][0]			
(Activation)			
block5a_se_squeeze	(32, 576)	0	
block5a_activati...			
(GlobalAveragePool...			

block5a_se_reshape	(32, 1, 1, 576)	0
block5a_se_squee... (Reshape)		
block5a_se_reduce	(32, 1, 1, 24)	13,848
block5a_se_resha... (Conv2D)		
block5a_se_expand	(32, 1, 1, 576)	14,400
block5a_se_reduc... (Conv2D)		
block5a_se_excite	(32, 16, 16, 576)	0
block5a_activati... (Multiply)		
block5a_se_expan...		
block5a_project_co...	(32, 16, 16, 112)	64,512
block5a_se_excit... (Conv2D)		
block5a_project_bn	(32, 16, 16, 112)	448
block5a_project_... (BatchNormalizatio...		
block5b_expand_conv	(32, 16, 16, 672)	75,264
block5a_project_... (Conv2D)		
block5b_expand_bn	(32, 16, 16, 672)	2,688
block5b_expand_c... (BatchNormalizatio...		

block5b_expand_act...	(32, 16, 16, 672)	0
block5b_expand_b... (Activation)		
block5b_dwconv2	(32, 16, 16, 672)	6,048
block5b_expand_a... (DepthwiseConv2D)		
block5b_bn	(32, 16, 16, 672)	2,688
block5b_dwconv2[... (BatchNormalizatio...		
block5b_activation	(32, 16, 16, 672)	0
block5b_bn[0][0] (Activation)		
block5b_se_squeeze	(32, 672)	0
block5b_activati... (GlobalAveragePool...		
block5b_se_reshape	(32, 1, 1, 672)	0
block5b_se_squee... (Reshape)		
block5b_se_reduce	(32, 1, 1, 28)	18,844
block5b_se_resha... (Conv2D)		
block5b_se_expand	(32, 1, 1, 672)	19,488
block5b_se_reduc... (Conv2D)		
block5b_se_excite	(32, 16, 16, 672)	0
block5b_activati...		

(Multiply)			
block5b_se_expan...			
block5b_project_co...	(32, 16, 16, 112)	75,264	
block5b_se_excit...			
(Conv2D)			
block5b_project_bn	(32, 16, 16, 112)	448	
block5b_project_...			
(BatchNormalizatio...			
block5b_drop	(32, 16, 16, 112)	0	
block5b_project_...			
(Dropout)			
block5b_add (Add)	(32, 16, 16, 112)	0	
block5b_drop[0][...			
block5a_project_...			
block5c_expand_conv	(32, 16, 16, 672)	75,264	
block5b_add[0][0]			
(Conv2D)			
block5c_expand_bn	(32, 16, 16, 672)	2,688	
block5c_expand_c...			
(BatchNormalizatio...			
block5c_expand_act...	(32, 16, 16, 672)	0	
block5c_expand_b...			
(Activation)			
block5c_dwconv2	(32, 16, 16, 672)	6,048	
block5c_expand_a...			
(DepthwiseConv2D)			

block5c_bn	(32, 16, 16, 672)	2,688
block5c_dwconv2[... (BatchNormalizatio...		
block5c_activation	(32, 16, 16, 672)	0
block5c_bn[0][0] (Activation)		
block5c_se_squeeze	(32, 672)	0
block5c_activati... (GlobalAveragePool...		
block5c_se_reshape	(32, 1, 1, 672)	0
block5c_se_squee... (Reshape)		
block5c_se_reduce	(32, 1, 1, 28)	18,844
block5c_se_resha... (Conv2D)		
block5c_se_expand	(32, 1, 1, 672)	19,488
block5c_se_reduc... (Conv2D)		
block5c_se_excite	(32, 16, 16, 672)	0
block5c_activati... (Multiply)		
block5c_se_expan...		
block5c_project_co...	(32, 16, 16, 112)	75,264
block5c_se_excit... (Conv2D)		

block5c_project_bn	(32, 16, 16, 112)	448
block5c_project_... (BatchNormalizatio...		
block5c_drop	(32, 16, 16, 112)	0
block5c_project_... (Dropout)		
block5c_add (Add)	(32, 16, 16, 112)	0
block5c_drop[0][... block5b_add[0][0]		
block5d_expand_conv	(32, 16, 16, 672)	75,264
block5c_add[0][0] (Conv2D)		
block5d_expand_bn	(32, 16, 16, 672)	2,688
block5d_expand_c... (BatchNormalizatio...		
block5d_expand_act...	(32, 16, 16, 672)	0
block5d_expand_b... (Activation)		
block5d_dwconv2	(32, 16, 16, 672)	6,048
block5d_expand_a... (DepthwiseConv2D)		
block5d_bn	(32, 16, 16, 672)	2,688
block5d_dwconv2[... (BatchNormalizatio...		
block5d_activation	(32, 16, 16, 672)	0
block5d_bn[0][0]		

(Activation)			
block5d_se_squeeze block5d_activati...	(32, 672)	0	
(GlobalAveragePool...			
block5d_se_reshape block5d_se_squee...	(32, 1, 1, 672)	0	
(Reshape)			
block5d_se_reduce block5d_se_resha...	(32, 1, 1, 28)	18,844	
(Conv2D)			
block5d_se_expand block5d_se_reduc...	(32, 1, 1, 672)	19,488	
(Conv2D)			
block5d_se_excite block5d_activati...	(32, 16, 16, 672)	0	
(Multiply)			
block5d_se_expan...			
block5d_project_co... block5d_se_excit...	(32, 16, 16, 112)	75,264	
(Conv2D)			
block5d_project_bn block5d_project_...	(32, 16, 16, 112)	448	
(BatchNormalizatio...			
block5d_drop block5d_project_...	(32, 16, 16, 112)	0	
(Dropout)			

block5d_add (Add)	(32, 16, 16, 112)	0
block5d_drop[0][...]		
block5c_add[0][0]		
block5e_expand_conv	(32, 16, 16, 672)	75,264
block5d_add[0][0]		
(Conv2D)		
block5e_expand_bn	(32, 16, 16, 672)	2,688
block5e_expand_c...		
(BatchNormalizatio...		
block5e_expand_act...	(32, 16, 16, 672)	0
block5e_expand_b...		
(Activation)		
block5e_dwconv2	(32, 16, 16, 672)	6,048
block5e_expand_a...		
(DepthwiseConv2D)		
block5e_bn	(32, 16, 16, 672)	2,688
block5e_dwconv2[...]		
(BatchNormalizatio...		
block5e_activation	(32, 16, 16, 672)	0
block5e_bn[0][0]		
(Activation)		
block5e_se_squeeze	(32, 672)	0
block5e_activati...		
(GlobalAveragePool...		

block5e_se_reshape block5e_se_squee... (Reshape)	(32, 1, 1, 672)	0
block5e_se_reduce block5e_se_resha... (Conv2D)	(32, 1, 1, 28)	18,844
block5e_se_expand block5e_se_reduc... (Conv2D)	(32, 1, 1, 672)	19,488
block5e_se_excite block5e_activati... (Multiply)	(32, 16, 16, 672)	0
block5e_se_expan...		
block5e_project_co... block5e_se_excit... (Conv2D)	(32, 16, 16, 112)	75,264
block5e_project_bn block5e_project_... (BatchNormalizatio...	(32, 16, 16, 112)	448
block5e_drop block5e_project_... (Dropout)	(32, 16, 16, 112)	0
block5e_add (Add) block5e_drop[0][... block5d_add[0][0]	(32, 16, 16, 112)	0
block6a_expand_conv block5e_add[0][0]	(32, 16, 16, 672)	75,264

(Conv2D)			
block6a_expand_bn	(32, 16, 16, 672)	2,688	
block6a_expand_c...	(BatchNormalizatio...		
block6a_expand_act...	(32, 16, 16, 672)	0	
block6a_expand_b...	(Activation)		
block6a_dwconv2	(32, 8, 8, 672)	6,048	
block6a_expand_a...	(DepthwiseConv2D)		
block6a_bn	(32, 8, 8, 672)	2,688	
block6a_dwconv2[...	(BatchNormalizatio...		
block6a_activation	(32, 8, 8, 672)	0	
block6a_bn[0][0]	(Activation)		
block6a_se_squeeze	(32, 672)	0	
block6a_activati...	(GlobalAveragePool...		
block6a_se_reshape	(32, 1, 1, 672)	0	
block6a_se_squee...	(Reshape)		
block6a_se_reduce	(32, 1, 1, 28)	18,844	
block6a_se_resha...	(Conv2D)		

block6a_se_expand	(32, 1, 1, 672)	19,488	
block6a_se_reduc... (Conv2D)			
block6a_se_excite	(32, 8, 8, 672)	0	
block6a_activati... (Multiply)			
block6a_se_expan...			
block6a_project_co...	(32, 8, 8, 192)	129,024	
block6a_se_excit... (Conv2D)			
block6a_project_bn	(32, 8, 8, 192)	768	
block6a_project_... (BatchNormalizatio...			
block6b_expand_conv	(32, 8, 8, 1152)	221,184	
block6a_project_... (Conv2D)			
block6b_expand_bn	(32, 8, 8, 1152)	4,608	
block6b_expand_c... (BatchNormalizatio...			
block6b_expand_act...	(32, 8, 8, 1152)	0	
block6b_expand_b... (Activation)			
block6b_dwconv2	(32, 8, 8, 1152)	10,368	
block6b_expand_a... (DepthwiseConv2D)			

block6b_bn	(32, 8, 8, 1152)	4,608
block6b_dwconv2[...		
(BatchNormalizatio...		
<hr/>		
block6b_activation	(32, 8, 8, 1152)	0
block6b_bn[0][0]		
(Activation)		
<hr/>		
block6b_se_squeeze	(32, 1152)	0
block6b_activati...		
(GlobalAveragePool...		
<hr/>		
block6b_se_reshape	(32, 1, 1, 1152)	0
block6b_se_squee...		
(Reshape)		
<hr/>		
block6b_se_reduce	(32, 1, 1, 48)	55,344
block6b_se_resha...		
(Conv2D)		
<hr/>		
block6b_se_expand	(32, 1, 1, 1152)	56,448
block6b_se_reduc...		
(Conv2D)		
<hr/>		
block6b_se_excite	(32, 8, 8, 1152)	0
block6b_activati...		
(Multiply)		
block6b_se_expan...		
<hr/>		
block6b_project_co...	(32, 8, 8, 192)	221,184
block6b_se_excit...		
(Conv2D)		
<hr/>		
block6b_project_bn	(32, 8, 8, 192)	768
block6b_project_...		

(BatchNormalizatio...			
block6b_drop	(32, 8, 8, 192)	0	
block6b_project_...	(Dropout)		
block6b_add (Add)	(32, 8, 8, 192)	0	
block6b_drop[0][...]			
block6a_project_...			
block6c_expand_conv	(32, 8, 8, 1152)	221,184	
block6b_add[0][0]	(Conv2D)		
block6c_expand_bn	(32, 8, 8, 1152)	4,608	
block6c_expand_c...	(BatchNormalizatio...		
block6c_expand_act...	(32, 8, 8, 1152)	0	
block6c_expand_b...	(Activation)		
block6c_dwconv2	(32, 8, 8, 1152)	10,368	
block6c_expand_a...	(DepthwiseConv2D)		
block6c_bn	(32, 8, 8, 1152)	4,608	
block6c_dwconv2[...]	(BatchNormalizatio...		
block6c_activation	(32, 8, 8, 1152)	0	
block6c_bn[0][0]	(Activation)		

block6c_se_squeeze	(32, 1152)	0
block6c_activation_10	(GlobalAveragePool2D)	
block6c_se_reshape	(32, 1, 1, 1152)	0
block6c_se_squeeze_1	(Reshape)	
block6c_se_reduce	(32, 1, 1, 48)	55,344
block6c_se_reshape_1	(Conv2D)	
block6c_se_expand	(32, 1, 1, 1152)	56,448
block6c_se_reduce_1	(Conv2D)	
block6c_se_excite	(32, 8, 8, 1152)	0
block6c_activation_11	(Multiply)	
block6c_se_expand_1		
block6c_project_conv	(32, 8, 8, 192)	221,184
block6c_se_excite_1	(Conv2D)	
block6c_project_bn	(32, 8, 8, 192)	768
block6c_project_conv_1	(BatchNormalization)	
block6c_drop	(32, 8, 8, 192)	0
block6c_project_conv_2	(Dropout)	

block6c_add (Add)	(32, 8, 8, 192)	0	
block6c_drop[0][...]			
block6b_add[0][0]			
block6d_expand_conv	(32, 8, 8, 1152)	221,184	
block6c_add[0][0]			
(Conv2D)			
block6d_expand_bn	(32, 8, 8, 1152)	4,608	
block6d_expand_c...			
(BatchNormalizatio...			
block6d_expand_act...	(32, 8, 8, 1152)	0	
block6d_expand_b...			
(Activation)			
block6d_dwconv2	(32, 8, 8, 1152)	10,368	
block6d_expand_a...			
(DepthwiseConv2D)			
block6d_bn	(32, 8, 8, 1152)	4,608	
block6d_dwconv2[...			
(BatchNormalizatio...			
block6d_activation	(32, 8, 8, 1152)	0	
block6d_bn[0][0]			
(Activation)			
block6d_se_squeeze	(32, 1152)	0	
block6d_activati...			
(GlobalAveragePool...			
block6d_se_reshape	(32, 1, 1, 1152)	0	
block6d_se_squee...			

(Reshape)			
block6d_se_reduce block6d_se_resha...	(32, 1, 1, 48)	55,344	
(Conv2D)			
block6d_se_expand block6d_se_reduc...	(32, 1, 1, 1152)	56,448	
(Conv2D)			
block6d_se_excite block6d_activati...	(32, 8, 8, 1152)	0	
(Multiply)			
block6d_se_expan...			
block6d_project_co... block6d_se_excit...	(32, 8, 8, 192)	221,184	
(Conv2D)			
block6d_project_bn block6d_project_...	(32, 8, 8, 192)	768	
(BatchNormalizatio...			
block6d_drop block6d_project_...	(32, 8, 8, 192)	0	
(Dropout)			
block6d_add (Add) block6d_drop[0][...]	(32, 8, 8, 192)	0	
block6c_add[0][0]			
block6e_expand_conv block6d_add[0][0]	(32, 8, 8, 1152)	221,184	
(Conv2D)			

block6e_expand_bn	(32, 8, 8, 1152)	4,608
block6e_expand_c...	(BatchNormalizatio...	
block6e_expand_act...	(32, 8, 8, 1152)	0
block6e_expand_b...	(Activation)	
block6e_dwconv2	(32, 8, 8, 1152)	10,368
block6e_expand_a...	(DepthwiseConv2D)	
block6e_bn	(32, 8, 8, 1152)	4,608
block6e_dwconv2[...	(BatchNormalizatio...	
block6e_activation	(32, 8, 8, 1152)	0
block6e_bn[0][0]	(Activation)	
block6e_se_squeeze	(32, 1152)	0
block6e_activati...	(GlobalAveragePool...	
block6e_se_reshape	(32, 1, 1, 1152)	0
block6e_se_squee...	(Reshape)	
block6e_se_reduce	(32, 1, 1, 48)	55,344
block6e_se_resha...	(Conv2D)	

block6e_se_expand	(32, 1, 1, 1152)	56,448
block6e_se_reduc... (Conv2D)		
block6e_se_excite	(32, 8, 8, 1152)	0
block6e_activati... (Multiply)		
block6e_se_expan...		
block6e_project_co...	(32, 8, 8, 192)	221,184
block6e_se_excit... (Conv2D)		
block6e_project_bn	(32, 8, 8, 192)	768
block6e_project_... (BatchNormalizatio...		
block6e_drop	(32, 8, 8, 192)	0
block6e_project_... (Dropout)		
block6e_add (Add)	(32, 8, 8, 192)	0
block6e_drop[0][...]		
block6d_add[0][0]		
block6f_expand_conv	(32, 8, 8, 1152)	221,184
block6e_add[0][0] (Conv2D)		
block6f_expand_bn	(32, 8, 8, 1152)	4,608
block6f_expand_c... (BatchNormalizatio...		
block6f_expand_act...	(32, 8, 8, 1152)	0
block6f_expand_b...		

(Activation)			
block6f_dwconv2	(32, 8, 8, 1152)	10,368	
block6f_expand_activation (DepthwiseConv2D)			
block6f_bn	(32, 8, 8, 1152)	4,608	
block6f_dwconv2[...] (BatchNormalizatio...			
block6f_activation	(32, 8, 8, 1152)	0	
block6f_bn[0][0] (Activation)			
block6f_se_squeeze	(32, 1152)	0	
block6f_activation... (GlobalAveragePool...			
block6f_se_reshape	(32, 1, 1, 1152)	0	
block6f_se_squee... (Reshape)			
block6f_se_reduce	(32, 1, 1, 48)	55,344	
block6f_se_resha... (Conv2D)			
block6f_se_expand	(32, 1, 1, 1152)	56,448	
block6f_se_reduc... (Conv2D)			
block6f_se_excite	(32, 8, 8, 1152)	0	
block6f_activation... (Multiply)			
block6f_se_expan...			

block6f_project_conv2d	(32, 8, 8, 192)	221,184
block6f_se_excit		
(Conv2D)		
block6f_project_bn	(32, 8, 8, 192)	768
block6f_project_conv2d		
(BatchNormalization)		
block6f_drop	(32, 8, 8, 192)	0
block6f_project_conv2d		
(Dropout)		
block6f_add (Add)	(32, 8, 8, 192)	0
block6f_drop[0] [...]		
block6e_add[0][0]		
block6g_expand_conv2d	(32, 8, 8, 1152)	221,184
block6f_add[0][0]		
(Conv2D)		
block6g_expand_bn	(32, 8, 8, 1152)	4,608
block6g_expand_conv2d		
(BatchNormalization)		
block6g_expand_activation	(32, 8, 8, 1152)	0
block6g_expand_bn		
(Activation)		
block6g_dwconv2d	(32, 8, 8, 1152)	10,368
block6g_expand_activation		
(DepthwiseConv2D)		

block6g_bn	(32, 8, 8, 1152)	4,608
block6g_dwconv2[... (BatchNormalizatio...		
block6g_activation	(32, 8, 8, 1152)	0
block6g_bn[0][0] (Activation)		
block6g_se_squeeze	(32, 1152)	0
block6g_activati... (GlobalAveragePool...		
block6g_se_reshape	(32, 1, 1, 1152)	0
block6g_se_squee... (Reshape)		
block6g_se_reduce	(32, 1, 1, 48)	55,344
block6g_se_resha... (Conv2D)		
block6g_se_expand	(32, 1, 1, 1152)	56,448
block6g_se_reduc... (Conv2D)		
block6g_se_excite	(32, 8, 8, 1152)	0
block6g_activati... (Multiply)		
block6g_se_expan...		
block6g_project_co...	(32, 8, 8, 192)	221,184
block6g_se_excit... (Conv2D)		
block6g_project_bn	(32, 8, 8, 192)	768
block6g_project_...		

(BatchNormalizatio...			
block6g_drop block6g_project_...	(32, 8, 8, 192)	0	
(Dropout)			
block6g_add (Add) block6g_drop[0][...]	(32, 8, 8, 192)	0	
block6f_add[0][0]			
block6h_expand_conv block6g_add[0][0]	(32, 8, 8, 1152)	221,184	
(Conv2D)			
block6h_expand_bn block6h_expand_c...	(32, 8, 8, 1152)	4,608	
(BatchNormalizatio...			
block6h_expand_act... block6h_expand_b...	(32, 8, 8, 1152)	0	
(Activation)			
block6h_dwconv2 block6h_expand_a...	(32, 8, 8, 1152)	10,368	
(DepthwiseConv2D)			
block6h_bn block6h_dwconv2[...]	(32, 8, 8, 1152)	4,608	
(BatchNormalizatio...			
block6h_activation block6h_bn[0][0]	(32, 8, 8, 1152)	0	
(Activation)			

block6h_se_squeeze	(32, 1152)	0
block6h_activation_10	(GlobalAveragePool2D)	
block6h_se_reshape	(32, 1, 1, 1152)	0
block6h_se_squeeze_1	(Reshape)	
block6h_se_reduce	(32, 1, 1, 48)	55,344
block6h_se_reshape_1	(Conv2D)	
block6h_se_expand	(32, 1, 1, 1152)	56,448
block6h_se_reduce_1	(Conv2D)	
block6h_se_excite	(32, 8, 8, 1152)	0
block6h_activation_11	(Multiply)	
block6h_se_expand_1		
block6h_project_conv	(32, 8, 8, 192)	221,184
block6h_se_excite_1	(Conv2D)	
block6h_project_bn	(32, 8, 8, 192)	768
block6h_project_conv_1	(BatchNormalization)	
block6h_drop	(32, 8, 8, 192)	0
block6h_project_conv_2	(Dropout)	

block6h_add (Add)	(32, 8, 8, 192)	0	
block6h_drop[0][...]			
block6g_add[0][0]			
top_conv (Conv2D)	(32, 8, 8, 1280)	245,760	
block6h_add[0][0]			
top_bn	(32, 8, 8, 1280)	5,120	top_conv[0][0]
(BatchNormalizatio...			
top_activation	(32, 8, 8, 1280)	0	top_bn[0][0]
(Activation)			
reshape_to_tokens	(32, 64, 1280)	0	
top_activation[0...]			
(Reshape)			
add_1 (Add)	(32, 64, 1280)	0	
reshape_to_token...			
transformer_block_...	(32, 64, 1280)	2,560	add_1[0][0]
(LayerNormalizatio...			
transformer_block_...	(32, 64, 1280)	1,312,768	
transformer_bloc...			
(MultiHeadAttentio...			
transformer_bloc...			
transformer_block_...	(32, 64, 1280)	0	
transformer_bloc...			
(Dropout)			

transformer_block_...	(32, 64, 1280)	0	add_1[0][0],
(Add)			
transformer_bloc...			
transformer_block_...	(32, 64, 1280)	2,560	
transformer_bloc...			
(LayerNormalizatio...			
transformer_block_...	(32, 64, 256)	327,936	
transformer_bloc...			
(Dense)			
transformer_block_...	(32, 64, 1280)	328,960	
transformer_bloc...			
(Dense)			
transformer_block_...	(32, 64, 1280)	0	
transformer_bloc...			
(Dropout)			
transformer_block_...	(32, 64, 1280)	0	
transformer_bloc...			
(Add)			
transformer_bloc...			
efficientnet_globa...	(32, 1280)	0	
top_activation[0...			
(GlobalAveragePool...			
transformer_global...	(32, 1280)	0	
transformer_bloc...			
(GlobalAveragePool...			
feature_fusion	(32, 1280)	0	
efficientnet_glo...			

(Add)			
transformer_glob...			
dropout_1 (Dropout)	(32, 1280)	0	
feature_fusion[0...			
fc_1 (Dense)	(32, 256)	327,680	
dropout_1[0][0]			
bn_fc	(32, 256)	1,024	fc_1[0][0]
(BatchNormalizatio...			
leakyrelu_fc	(32, 256)	0	bn_fc[0][0]
(LeakyReLU)			
dropout_2 (Dropout)	(32, 256)	0	
leakyrelu_fc[0][...			
output_sigmoid	(32, 1)	257	
dropout_2[0][0]			
(Dense)			

Total params: 8,223,057 (31.37 MB)

Trainable params: 8,161,937 (31.14 MB)

Non-trainable params: 61,120 (238.75 KB)