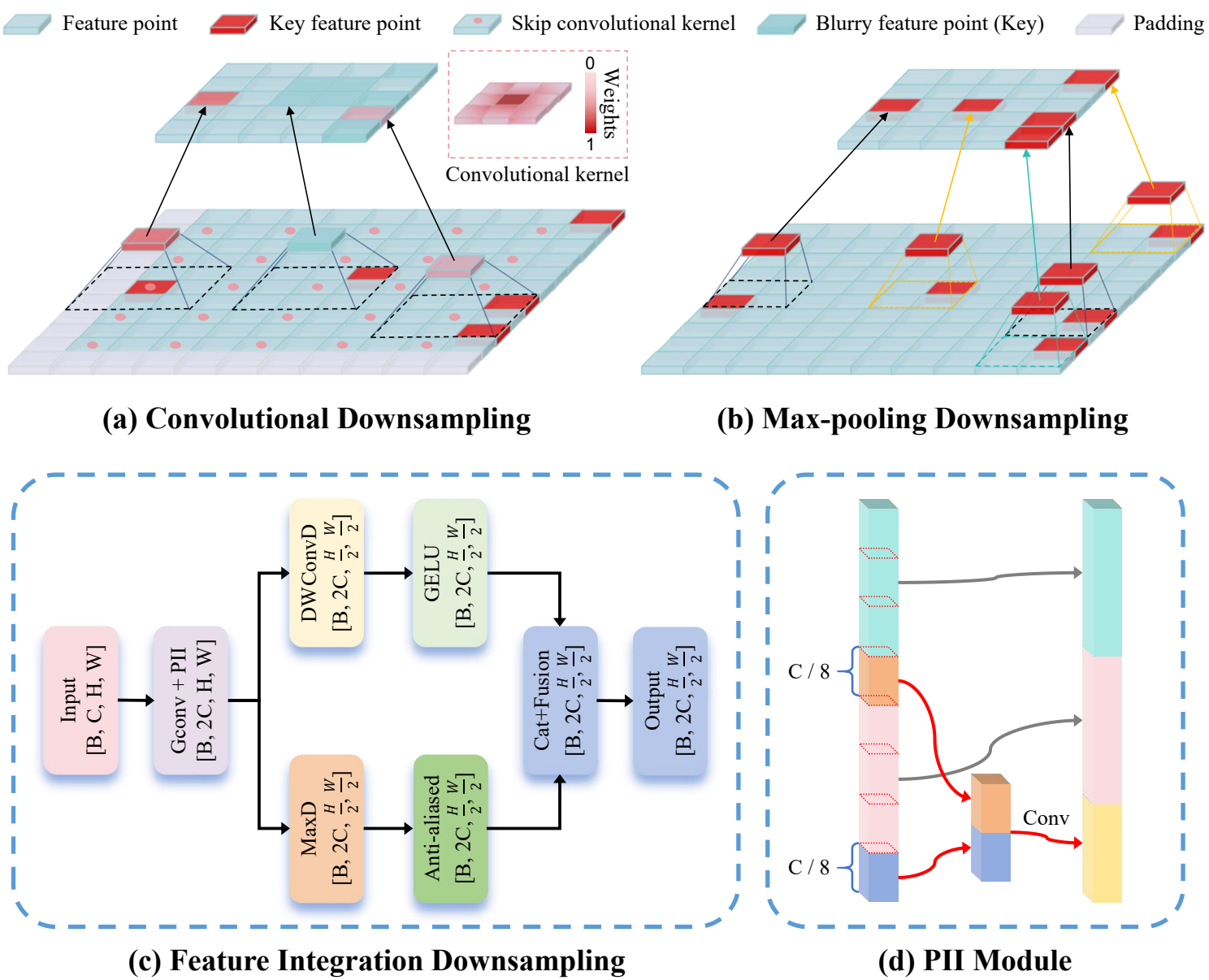
Feature point
Key feature point
Skip convolutional kernel
Blurry feature point (Key)
Padding
0
Weights
1
Convolutional kernel
(a) Convolutional Downsampling
(b) Max-pooling Downsampling
Input
[B, C, H, W]
Gconv + PII
[B, 2C, H, W]
DWConvD
[B, 2C, H/2, W/2]
GELU
[B, 2C, H/2, W/2]
MaxD
[B, 2C, H/2, W/2]
Anti-aliased
[B, 2C, H/2, W/2]
Cat+Fusion
[B, 2C, H/2, W/2]
Output
[B, 2C, H/2, W/2]
C / 8
C / 8
Conv
(c) Feature Integration Downsampling
(d) PII Module