input array, \( x[n] \) in GM

sample index:

block, \( Q \):

thread, 0

thread, 1

\( k = 0 \)

\( k = 1 \)

\( k = K-1 \)

MAC unit, 0

MAC unit, 1

MAC unit, K-1

M input samples

output, \( y[0] \)

input samples in SM

filter taps in CM

output, \( y[1] \)

block dimension (threads per block)

output, \( y[K-1] \)