INPUTS

- clk
- rst
- sync_clr
- en
- ckg_rmask[3 downto 0]
- ckg_cmask[3 downto 0]
- rst_cnt1
- en_cnt1
- rst_cnt2
- en_cn2
- layer_fc[1 downto 0]
- imap[3 downto 0]
- weights[PEBlockWeights]

OUTPUTS

- ofmap [PEBlockDataRes]
- tc
- tc2