

Analysis of Competition between TSMC and Samsung Using the Case of Qualcomm Snapdragon 835 Processor

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Abstracts

TSMC and Qualcomm have a long history of collaboration—from Qualcomm's flagship Snapdragon 800, 801, and 805 built on TSMC's 28nm process to Snapdragon 808 and 810 on TSMC's 20nm process. This relationship took a hit, however, when Qualcomm turned to Samsung's 14nm process for its Snapdragon 820 in 2015 and 10nm technology for Snapdragon 835 in 2016. This report explains why Qualcomm dropped TSMC for Samsung with analysis of competition between TSMC and Samsung in advanced process technology. Using the case of Snapdragon 835, this report further highlights the key factors that have led to Qualcomm-Samsung partnership; provides insights as to whether TSMC can win back chip orders from Qualcomm with its 7nm process.

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