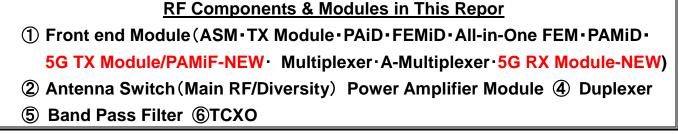
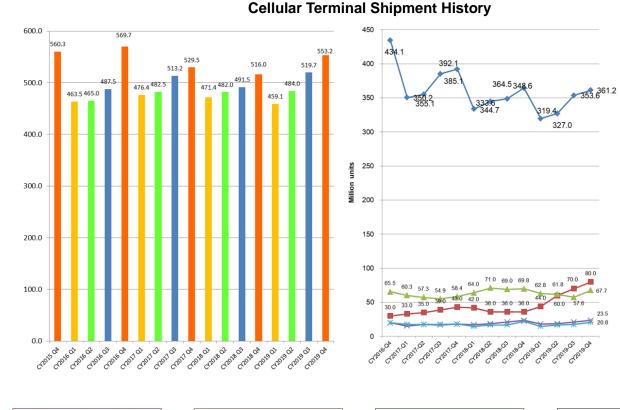
# Navian Marketing Report

# **RF Devices/Modules For Cellular Terminal** Quarterly Market Report Q4 2019

# Released on May 25, 2020

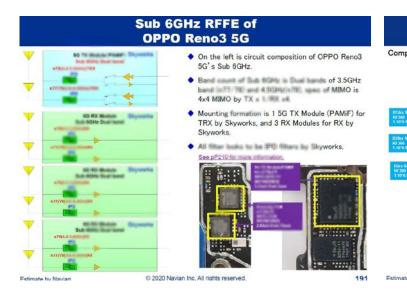






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#### Market Forecast of TX Module in 2020 Although progression of shift to PAMiD and FEMiD caused TX Module demand to start shrinking from late 2011 increase from late 2015, and manufacturing of design and manufacturing of design and manufacturing of the total DH. 1,000 SAMSUNG signed DOM services with Chinese IDH like Wingtesh and thesan in July 2118, for middle/low-end dels of their Galaxy A series and M series. Manufacturing of around 60-80 million units a year are outsourced, and these smallahores designed and made by Chinese IDH basically adopt TX Module instead of FEMiD which SAMSUNG used to adopt 1.400 Because of this, T1 means method use recorded a slight plus, with 1 DML 1 million pcs (YoY 102.9%, 1,200 1,000 quantity). 800 However, TX Module demand is thought to decrease in the long run, areas Dimensional Burget to decrease FEMIL and the dule, and Huawei will start adopting many interest In 2020, affected by shipment decrease of cellular devices, TX Module market size is expected to shir to 960.2 million million dollars



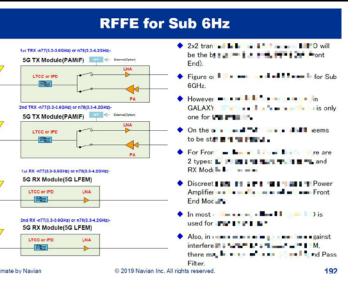
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## (5)PAMiD

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