



5G chipsets for worldwide markets

Ravi Gopalan, iCDG Intel

collaborating in 25+ 5G trials across the globe



5G

BUILDING The FUTURE of 5G

Our collaborations to accelerate 5G
Technology, Standards and Spectrum.



Intel powers 5G end-to-end Enabling platform from edge to cloud

End2End engagement

Smart devices

access technology

Access AND edge network

Core network

cloud



cellular Bands and CA combinations

RF Band Proliferation



Intel Announcements Related to 5G Chipsets

- Olympic Winter Games 2018 highlights.
 - ~3800 terabytes of capacity deployed over 22 5G links at 10 sites
 - Supported numerous capabilities including multi-angle image capture, Time-Slice & Omni-View applications, streaming video delivery, VR, WiFi, and other telemetry
 - Challenging mix of multi-vendor interoperability, venue complexity, frigid temperatures, and high wind conditions for tens of thousands of consumers on the world stage
- MWC 2018 highlights:
 - Delivering 5G for PCs: Intel collaborating with Dell, HP, Lenovo, and Microsoft to co-engineer PC platforms to support 5G-enabled PCs for Holiday 2019
 - Network Transformation: Intel® Xeon™ D-2100 processor architecture will usher in a new era of edge computing for 5G Networks
 - 5G Strategic Collaboration: Intel and Spreadtrum have established a multi-year collaboration to develop a portfolio of 5G products for mobile platforms targeted to the China phone ecosystem
 - Firsts at MWC: At the Intel MWC booth, we're showcasing the first 5G NR public interoperability demonstration and first 5G-enabled 2in1 Concept PC
- Olympic Games Tokyo 2020.
 - Intel to collaborate with NTT DOCOMO on 5G technology at Olympic Games Tokyo 2020

Wireless chipset: Transition from LTE to 5G-NR

XMM™7000 series

XMM™8000 series

Power IC



Baseband processor



RF TRX sub6



LTE RF front end

Power IC



Baseband processor



RF TRX1

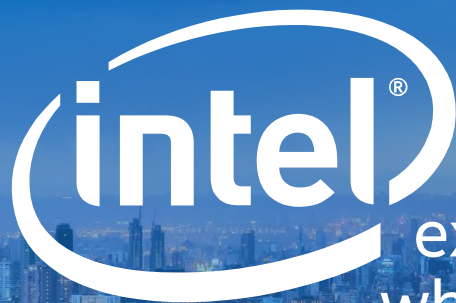


sub6 RF front end



RF TRX2

Early commercial devices 2H'19, scaling in '20



experience
what's inside™

