Qualcomm

Qualcomm networking pro series

Wi-Fi 7

Qualcomm® Networking Pro Series

Qualcomm

#1

Global Wi-Fi shipments (by volume)[1]

900+

Wi-Fi 6/6E designs wins across all product lines[2]

6B+

Wi-Fi products shipped since 2015[2]

#1

Enterprise[3] & Wi-Fi Mesh[4]

Global Wi-Fi leader, innovating since 1998

1 ABI Research: Mar 21, Wireless Connectivity Technology Segmentation and Addressable Markets
2 Qualcomm Technologies, Inc. Iiternal data
3 IDC WW Quarterly LAN Tracker (link), 4 The NPD Group, Inc. US Retail Tracking Service, Mar 21 + QTI analysis

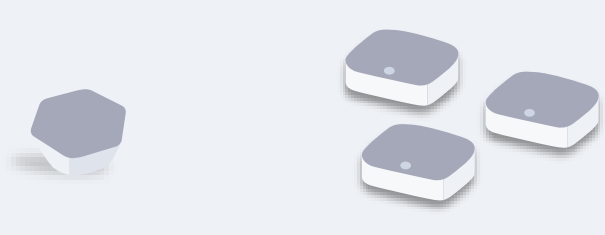
Qualcomm immersive home platform

Two dynamic portfolios
for Wi-Fi infrastructure

Qualcomm networking pro series

Immersive Home Platform | **Networking Pro Series**

Advanced home applications



Enterprise applications

Qualcomm Networking Pro Series Leadership

275+

design wins to date

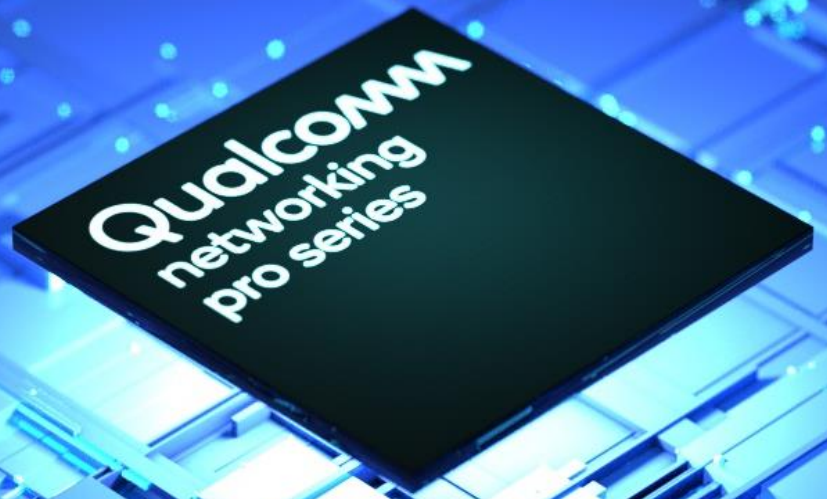
Enterprise APs

Mesh system

Carrier gateways

Gaming routers

5G FWA gateways



aruba
a Hewlett Packard Enterprise company

cisco Meraki

NETGEAR

eero
an amazon company

mi

AVM

tp-link

CISCO

H3C

ARISTA

LINKSYS

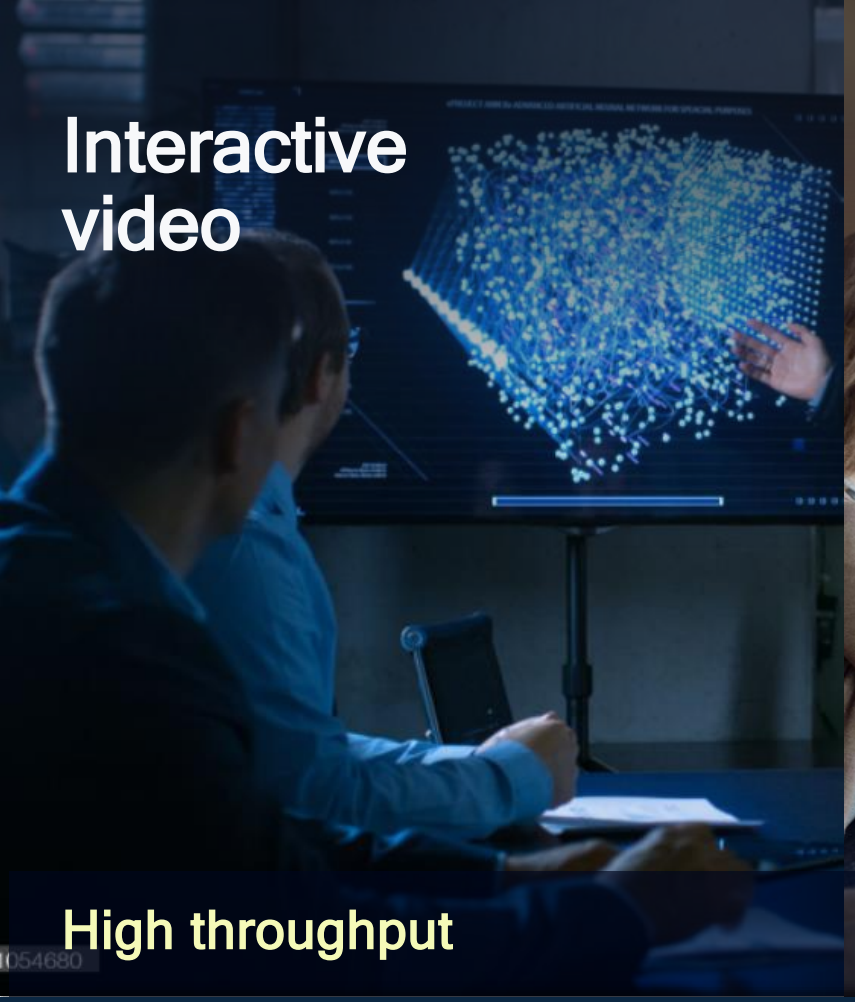
Qualcomm Networking Pro Series

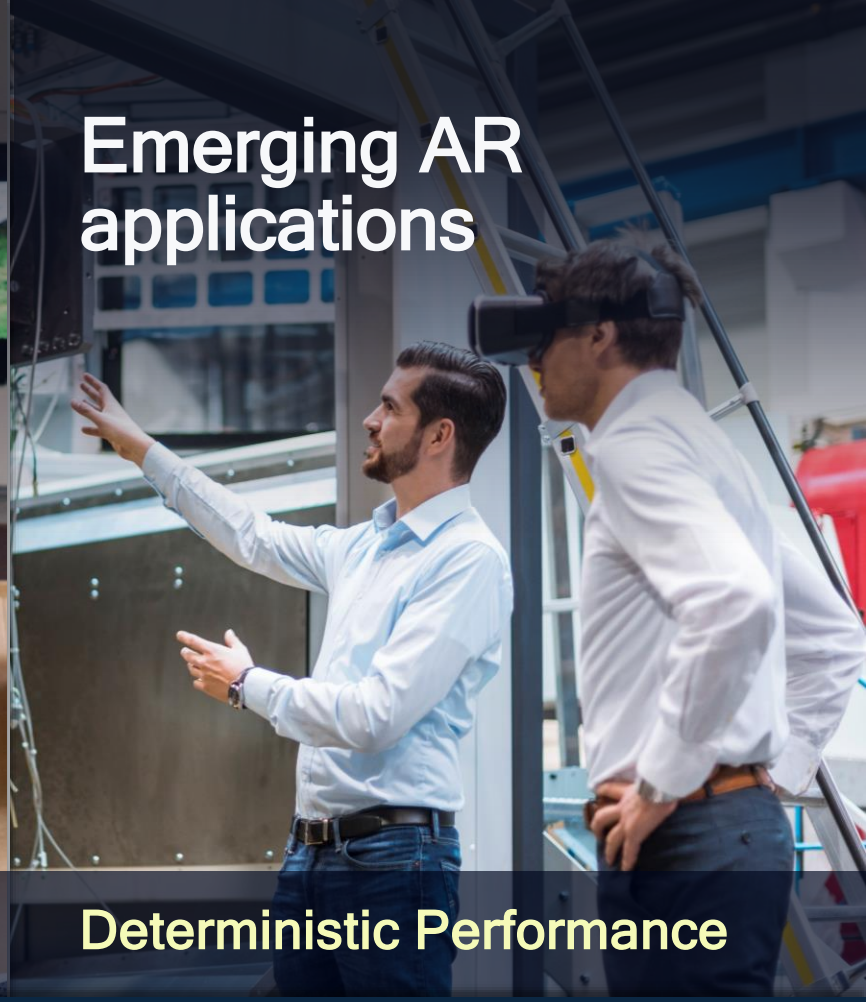
Industry Leading Capacity, Most Expansive Platform Portfolio

Maximum capacity

Massive multi-user scale

Modular platform architecture





Modern requirements of Wi-Fi

A challenge for today's technology providers


The
Evolution
of
Wi-Fi
Wi-Fi
7
Wi-Fi
6
Wi-Fi
5
Wi-Fi
4

Early Wi-Fi

802.11g | 2013

AVAILABLE SPECTRUM

80

MHz

SYSTEM WIRELESS CHANNELS

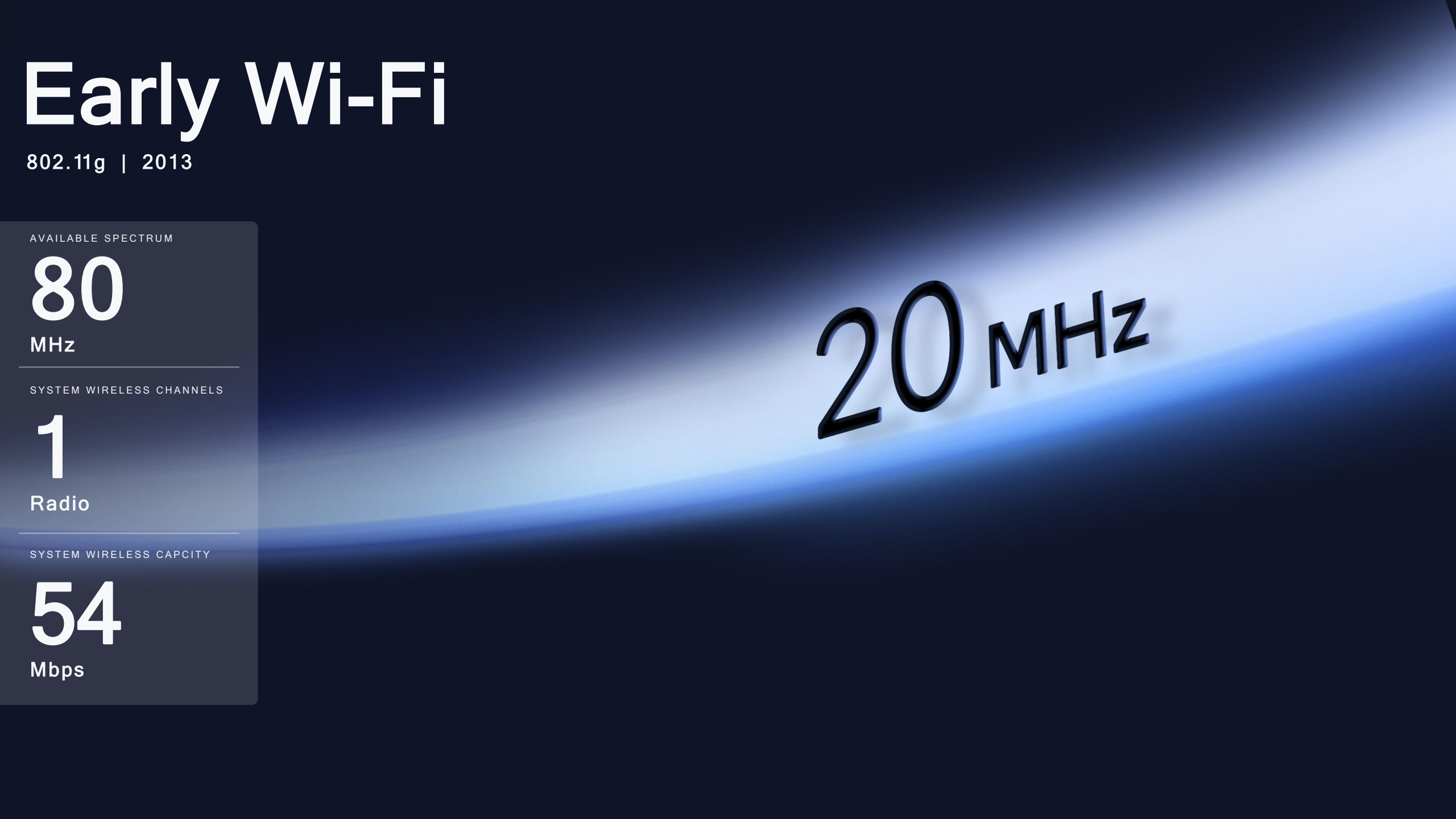
1

Radio

SYSTEM WIRELESS CAPCITY

54

Mbps



Wi-Fi 6

802.11ax | 2017

AVAILABLE SPECTRUM

560

MHz

SYSTEM WIRELESS CHANNELS

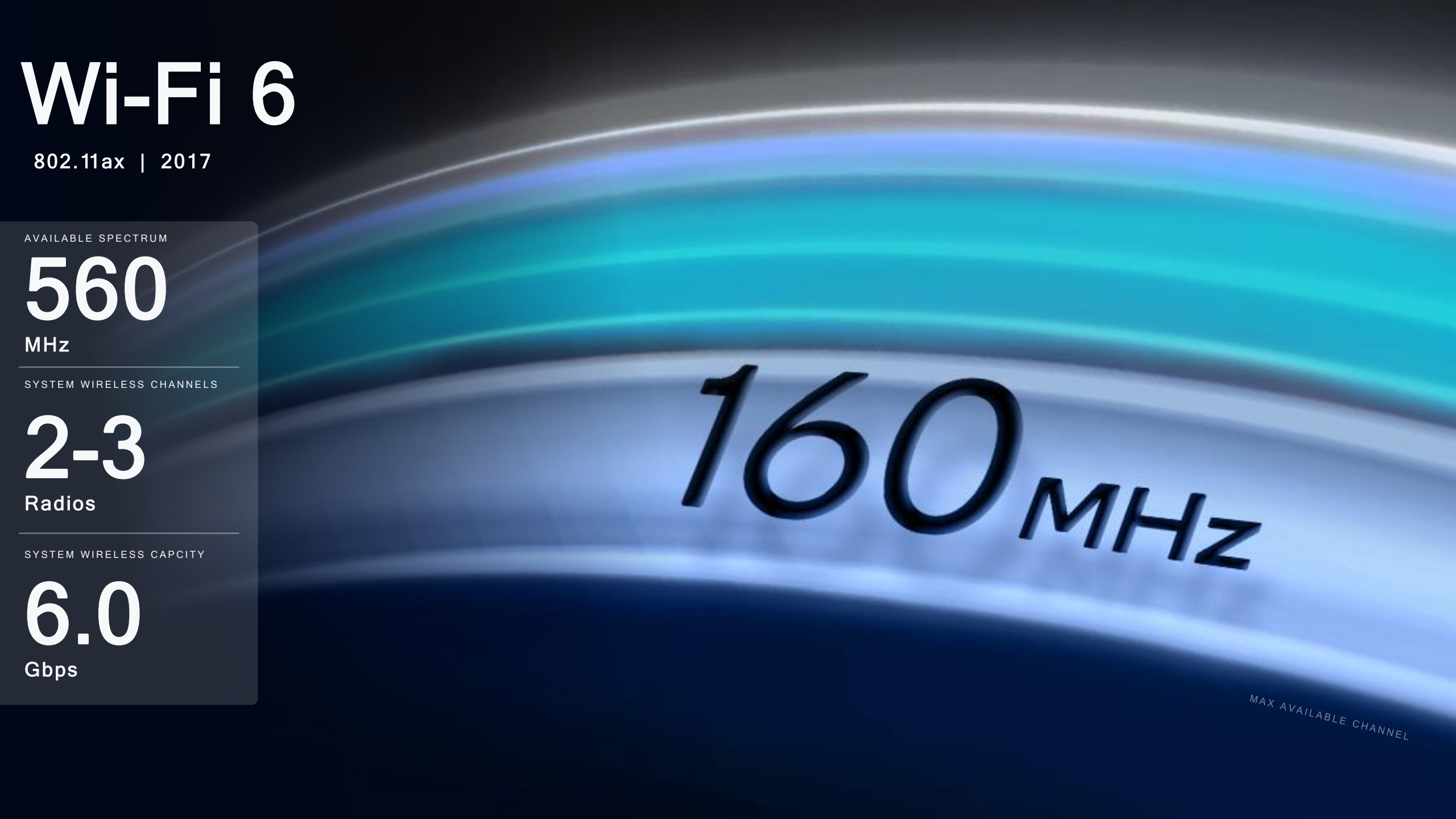
2-3

Radios

SYSTEM WIRELESS CAPCITY

6.0

Gbps



Wi-Fi 7

802.11be | Today

AVAILABLE SPECTRUM

1760

MHz

SYSTEM WIRELESS CHANNELS

3-4

Radio

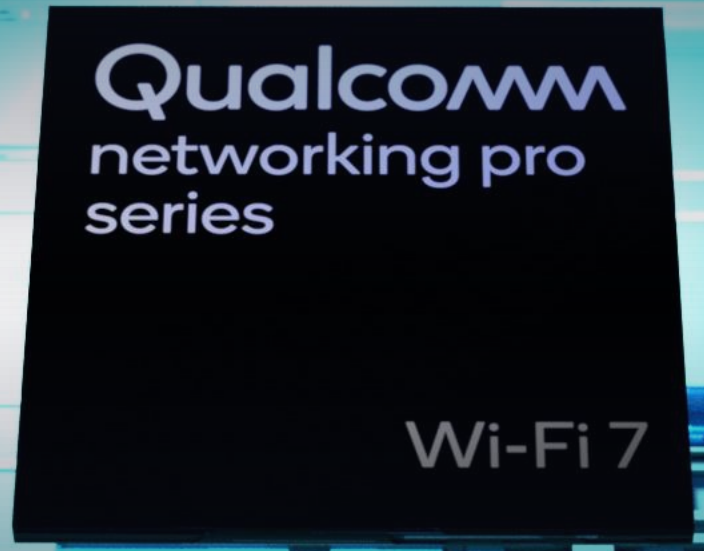
SYSTEM WIRELESS CAPCITY

33

Gbps

Redefining high performance

Extremely High Throughput | Deterministic Latency



Peak system PHY rate

33 Gbps

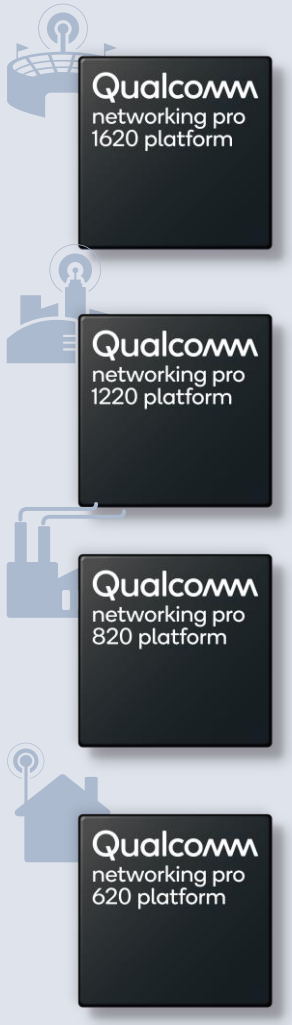
Wireless PHY rate per channel

10+ Gbps

User capacity per channel

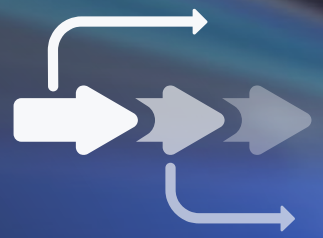
500+ Users

The Most Scalable Portfolio for Wi-Fi 7 Networking



Stream count	Peak PHY rate	Configuration	Band configuration
16-Stream	33 Gbps	4 + 4 + 4 + 4	Quad-band
12-Stream	21 Gbps	4 + 4 + 4	Tri-band
8-Stream	16 Gbps	2 + 2 + 2 + 2	Quad-band
6-Stream	10 Gbps	2 + 2 + 2	Tri-band

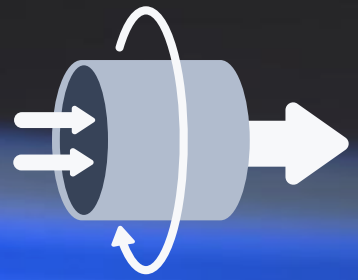
Game-changing Wi-Fi 7 Features



Faster Connections

320MHz channels

4k QAM



Multiple Connections

Multi-link operation

Adaptive Connections

Adaptive Interface Puncturing

Wi-Fi 7:
Faster Connections

Wider Channels

Doubles the max channel to 320MHz:
Delivers higher speed, lower latency transfers

4K QAM

Advanced modulation:
impactful performance improvements

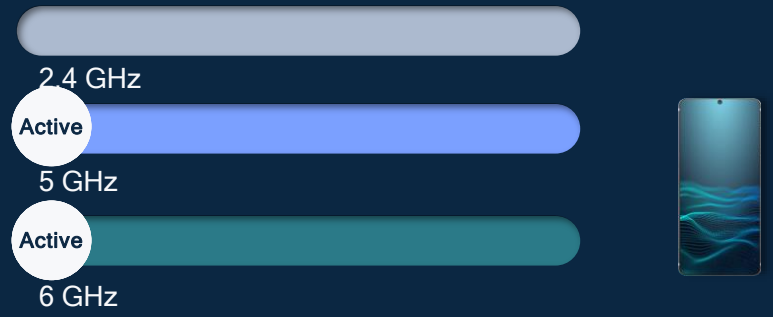
Multiple Connections with

Wi-Fi 7 Multi-Link

Wi-Fi 7 enables for the first time

Multi-Link

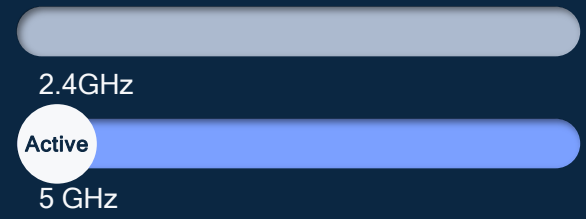
running alternating or simultaneous



Dual-band and tri-band enables

a choice of links

between devices

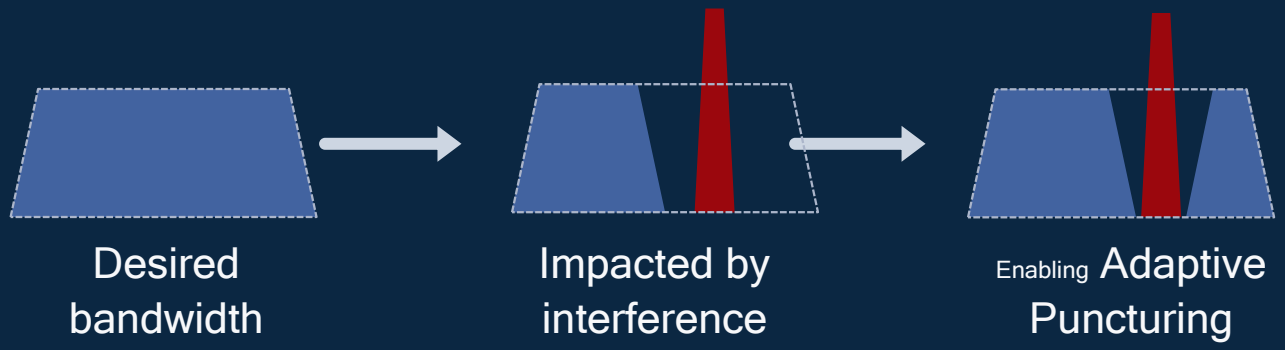


From the beginning of Wi-Fi

one link

between router and client

Wi-Fi 7: Adaptive Connections



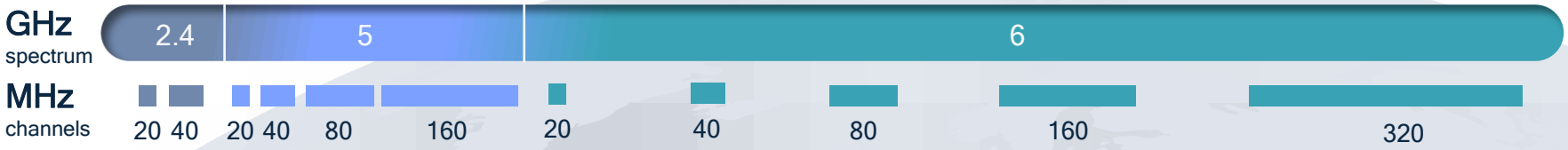
Adaptive Interference Puncturing

Maximizes channel bandwidth in the presence of interference

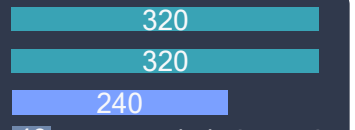
Ideal configurations for every region

Qualcomm networking pro series Wi-Fi 7

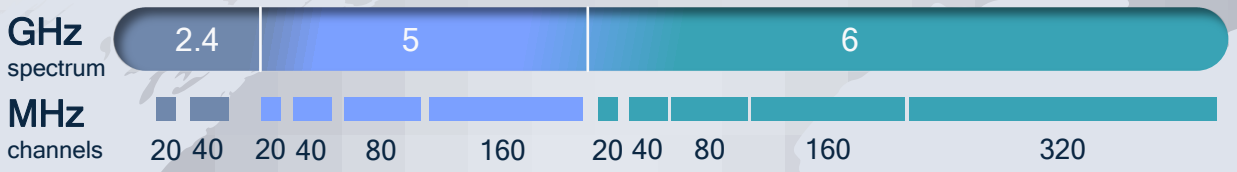
Regions with 1200MHz of 6GHz allocated



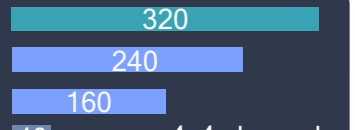
Quad-Band
33 Gbps



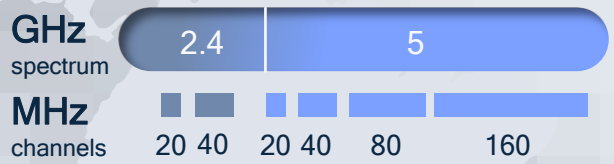
Regions with 480MHz of 6GHz allocated



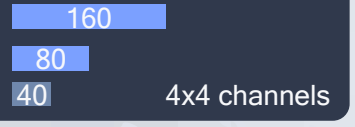
Quad-Band
27 Gbps



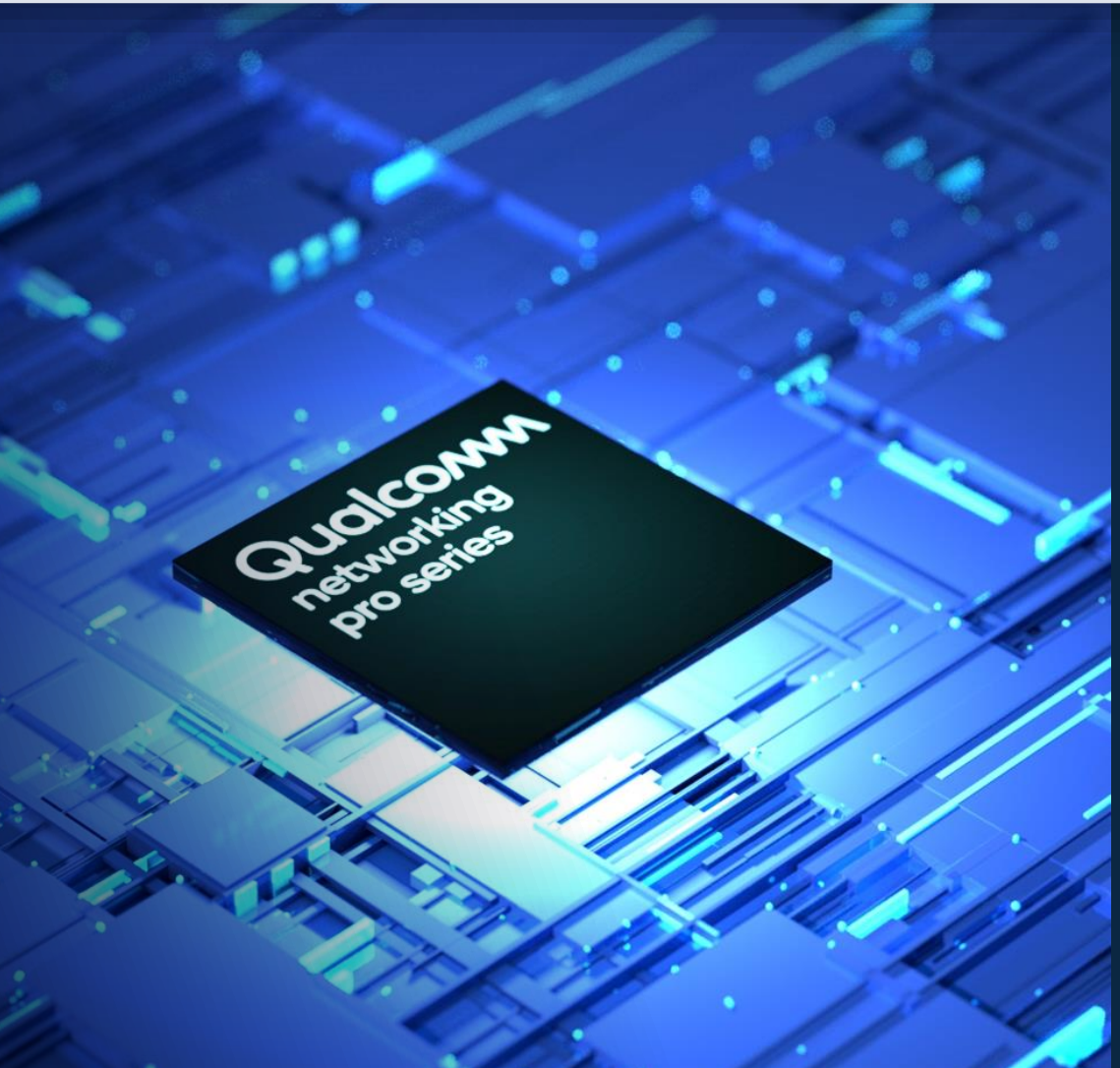
Regions without 6GHz allocation



Tri-Band
10 Gbps



Wi-Fi 7 increases customer options



Massive portfolio breadth

BE33000
Quad Band *4+4+4+4*

BE21000
Tri Band *4+4+4*

BE16000
Quad Band *2+2+2+2*

BE10000
Tri Band *2+2+2*

AX5400
Dual Band *2+4*

AX3000
Dual Band *2+2*

Complete Wi-Fi 7 Ecosystem

Qualcomm
FastConnect 7800

Announced: Feb 2022

Qualcomm networking pro series
Wi-Fi 7

Announced: May 2022

Bringing Wi-Fi 7

to

Networking Pro Series platforms

Wi-Fi 7 high-performance toolkit

Wider Channels

Multi-link

Adaptive Channels

Networking Pro Series platforms approach

Maximum Capacity

Massive Multi-user

Scalable Product Platform

Sampling now

Thank you

Qualcomm

Follow us on:

For more information, visit us at:

qualcomm.com & qualcomm.com/blog