

## Research Dossier: Verizon Wireless

Country

United States

Company Name

Cellco Partnership Inc.

Ownership Type

Subsidiary

Website

<https://www.verizonwireless.com/>

MNC

012

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## Company Overview

Profiling Verizon Wireless is a considerable task. Please bear with us while we work to complete this dossier.

Verizon IoT

To augment IoT services provided by the company's LTE-M network since March 2017, Verizon launched its NB-IoT network in May 2019. The new network operates in the guardband of the company's existing LTE carriers including B13 (700 MHz).

Verizon 5G

Despite officially inaugurating its 5G network in October 2018 as a fixed wireless 'home broadband' network, Verizon claimed a world first when on the 3rd April 2019 it announced its '5G Ultra Wideband' network as the first smartphone-compatible 5G network. Both fixed wireless and mobile networks are based on Verizon's mmWave n261 (28 GHz) 5G carrier. Verizon uses 400 MHz of its 28 GHz spectrum holdings, the largest channel size permitted in 5G mmWave bands.

Requiring twice the amount of base stations for the same coverage area, Verizon has not yet leveraged its 39 GHz spectrum holdings for 5G.

### ▼ 4G LTE Network Information

Details on LTE network deployments are shown below. Data are often incomplete due to commercial nature. Consult dossier text for further details.

Evolution	LTE Advanced Pro (LTE-A Pro)	Status	Active [Launched 2010-12]
Max. MIMO	4x4 MIMO	Max. Modulation	256QAM

Carrier Aggregation	CA_2A-4A (B2+B4) CA_2A-4A-13A (B2+B4+B13) CA_2A-2A-13A (B2+B2+B13) CA_4A-4A-13A (B4+B4+B13) CA_4A-13A (B4+B13)	Features	VoLTE
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LTE Band	Channel Width	Status
B2 (1900 MHz)	10 MHz	Active
B4 (1700 MHz)	20 MHz	Active
B5 (850 MHz)	10 MHz	Active
B13 (700 MHz)	10 MHz	Active
B66 (1700 MHz)	20 MHz	Active

#### ▼ 5G NR Network Information

Details on 5G NR network deployments are shown below. Data are often incomplete due to commercial nature. Consult dossier text for further details.

Type	NR (Standard)	Status	Active [Launched 2018-10-01]
Max. MIMO	2x2 MIMO	Max. Modulation	256QAM
Carrier Aggregation	-	Features	-

NR Band	Channel Width	Status
n261 (28 GHz)	400 MHz	Active
n260 (39 GHz)	No Data	Planned

#### ▼ IoT Network - eMTC (LTE Cat-M1)

Technology	eMTC (LTE Cat-M1)	Status	Active
Band	B4 (1700 MHz) B13 (700 MHz)	Launch Date	2017-03

#### ▼ IoT Network - NB-IoT (LTE Cat-NB1)

Technology	NB-IoT (LTE Cat-NB1)	Status	Active
Band	B13 (700 MHz)	Launch Date	2019-05

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