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Research Dossier: T-Mobile US



Country

United States

Company Name

T-Mobile US, Inc

Ownership Type

Publicly Traded Company

Ownership/Controlling Entity

Deutsche Telekom

Website

<https://www.t-mobile.com/>

MNC

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Company Overview

This dossier is under construction.

As America's Un-carrier, T-Mobile US, Inc. (NASDAQ: TMUS) is redefining the way consumers and businesses buy wireless services through leading product and service innovation. Our advanced nationwide 4G LTE network delivers outstanding wireless experiences to 81.3 million customers who are unwilling to compromise on quality and value.

T-Mobile 5G

T-Mobile US launched commercial 5G service in parts of six cities on June 28 2019. Initial 5G deployments have used its 28 GHz and 39 GHz mmWave spectrum, offering very limited outdoor coverage in portions of New York, Los Angeles, Las Vegas, Dallas, Cleveland, and Atlanta.

T-Mobile's 5G service uses EN-DC, establishing a high speed 4G connection and adding a 5G layer in dual-connectivity mode - aggregating the multiple bands to provide a high speed and adaptive mobile broadband service.

In July 2019 T-Mobile announced the successful testing of n71 (600 MHz) in partnership with Qualcomm and Ericsson. The company plans to launch 5G on its 600 MHz spectrum during the second half of 2019.

▼ 3G UMTS Network Information

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

Launch Date	2008-04	Status	Active
UMTS Band	Packet Data	Status	
B2 (1900 MHz)	HSPA+	Shut Down Announced	
B4 (1700 MHz)	DC-HSPA+	Shut Down Announced	

▼ 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 2013-03]
Max. MIMO	4x4 MIMO	Max. Modulation	256QAM
Carrier Aggregation	CA_2A-4A (B2+B4) CA_2A-12A (B2+B12) CA_2A-4A-12A (B2+B4+B12)	Features	LTE-U VoLTE

LTE Band	Channel Width	Status
B2 (1900 MHz)	20 MHz	Active
B4 (1700 MHz)	20 MHz	Active
B5 (850 MHz)	10 MHz	Limited / Partial Use
B12 (700 MHz)	5 MHz	Active
B66 (1700 MHz)	5 MHz	Active
B71 (600 MHz)	10 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 2019-06-28]
Max. MIMO	Massive MIMO	Max. Modulation	256QAM
Carrier Aggregation	-	Features	-

NR Band	Channel Width	Status
n71 (600 MHz)	10 MHz	Build-Out
n257 (28 GHz)	100 MHz	Active
n260 (39 GHz)	100 MHz	Active

▼ IoT Network - NB-IoT (LTE Cat-NB1)

Technology	NB-IoT (LTE Cat-NB1)	Status	Active
Band	B2 (1900 MHz) B4 (1700 MHz) B12 (700 MHz)	Launch Date	2018-07

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