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Research Dossier: Asia Pacific Telecom (Gt)

Country

Taiwan

Company Name

Asia Pacific Telecom Co., Ltd.

Ownership Type

Subsidiary

Website

https://www.aptg.com.tw/

MNC

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Company Overview

Asia Pacific Telecom, founded in 2000, was formed by the parent company, Asia Pacific Broadband Telecom Co., Ltd. (originally named Eastern Broadband Telecommunications Co., Ltd) consolidating the subsidiaries, "Asia Pacific Mobile Broadband" and "Asia Pacific Online Service" respectively in 2007 and 2011.

The company has traditionally been a CDMA operator which operated over CDMA2000 EV-DO Rev. B (800MHz), until the service was discontinued in August 2017. APT advised that it had planned to migrate all 3G customers across to its 4G LTE network which was launched in December 2014. 4G LTE began on B28 (700 MHz) and later expanded with B8 (900 MHz). TDD-LTE was introduced in September 2018 over B38 (2600 MHz), after securing additional spectrum from 2570 to 2595 MHz in 2016. The company implements a number of AirSpan small cell solutions to convert B8/28 carriers into B38 (2600 MHz) for indoor coverage.

In July 2018 the company announced the introduction of NB-IoT along with eMTC (Cat-M1) and LTE-M on its existing B8 (900 MHz) and B28 (700 MHz) 4G networks, following a year-long development process.

APT launched 5G services in October 2020 using the 3.5 GHz FR1 band and 28 GHz FR2 band, with a spectrum sharing arrangement in place with FET.

▼ 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 (Standard)	Status	Active [Launched 2014-

			12]
Max. MIMO	2x2 MIMO	Max. Modulation	64QAM
Carrier Aggregation	-	Features	LTE-M VoLTE

LTE Band	Channel Width	Status
B28 (700 MHz)	10 MHz	Active
B8 (900 MHz)	10 MHz	Active
B38 (2600 MHz)	20 MHz	Active
B41 (2500 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 2020-10-23]
Max. MIMO	Massive MIMO	Max. Modulation	256QAM
Carrier Aggregation	-	Features	-

NR Band	Channel Width	Status
n78 (3500 MHz)	80 MHz	Active
n257 (28 GHz)	400 MHz	Active

▼ IoT Network - NB-IoT (LTE Cat-NB1)

Technology	NB-IoT (LTE Cat-NB1)	Status	Active
Band	B8 (900 MHz) B28 (700 MHz)	Launch Date	2018-07

▼ IoT Network - eMTC (LTE Cat-M1)

Technology	eMTC (LTE Cat-M1)	Status	Active
Band	B8 (900 MHz) B28 (700 MHz)	Launch Date	2018-07

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