5G MODEMS FOR INDUSTRY VERTICAL USE CASES

MediaTek | Ville Salmi | 25th March 2019
World’s fourth largest fabless IC design company

headquarter in Taiwan
publicly listed in Taiwan Stock Exchange Market (ticker number 2454)

Source: IC Insights’ Research Bulletin sales ranking report for semiconductor companies worldwide, and company reports.
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Ships about 1.5 billion chips a year

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MediaTek 5G Technology – Helio 5G Modem, SoC & mmWave

- M70 Helio 5G Modem
- 5G Solutions for sub-6GHz

Helio M70 5G modem comes with LTE and dual 5G networks (EN-DC) enabling multi-mode connectivity from 2G to 5G. Supporting the sub-6GHz frequency band for non-standalone and standalone architectures, MediaTek Helio M70 connects everyone with reliable and faster broadband.
MediaTek Accelerates Rollout of 5G with Comprehensive 5G Solutions for sub-6GHz

CISIOM PR Newswire 25 February 2019

Hello M70, MediaTek's multimode 5G modem, shown running 4.2Gbps 5G data transfer speeds -- the industry's fastest sub-6GHz modem in live verified testing

BARCELONA, Spain, Feb. 25, 2019 /PRNewswire/ -- Today at MWC 2019, MediaTek announced advancements to its 5G portfolio to power the rollout of 5G devices in 2020 for the sub-6GHz spectrum. The Hello M70 5G modem was showcased for the intelligent home running 5G data transfer speeds as well as mmWave over-the-air tests of MediaTek's 5G antenna arrays. The Hello M70 demo runs at 4.2Gbps 5G data speeds -- the industry's fastest sub-6GHz live 5G modem demonstration to date.

MediaTek's 5G technology has gone through extensive industry testing and Hello M70 is expected to be in devices later this year. MediaTek is working closely with its customers, networks and technology suppliers to accelerate the rollout of 5G and power devices across mobile, home and auto by 2020.
MediaTek Accelerates Rollout of 5G with Comprehensive 5G Solutions for sub-6GHz

HELIO M70, MediaTek’s multimode 5G modem, shown running 4.2Gbps 5G data transfer speeds – the industry’s fastest sub-6GHz modem in live verified testing

BARCELONA, Spain, Feb. 25, 2019 /PRNewswire/ -- Today at MWC 2019, MediaTek announced advancements to its 5G portfolio to power the rollout of 5G devices in 2020 for the sub-6GHz spectrum. The Helio M70 5G modem was showcased for the first time.

MediaTek’s 5G antenna arrays. The Helio M70 demo runs at 4.2Gbps 5G data speeds -- the industry’s fastest sub-6GHz live 5G modem demonstration to date.

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Focused Development for Future

5G
AI & UX
Artificial Intelligence and User Experience

Connectivity / Modem
5G (eMBB for mobile, mMTC for IoT)

Computing
AI / Machine Learning

Multimedia
RESEARCH FOR 5G VERTICALS
5G VIIMA
5G VERTICAL INTEGRATED INDUSTRY FOR MASSIVE AUTOMATION
About 5G-Force and 5G-Viima

- MediaTek is participating following collaboration projects related to 5G technology:
  - 5G Force = Platform project for the 5G test networks
  - 5G-Viima = Vertical Integrated Industry for Massive Automation
MediaTek in 5G research

Themes, research focus areas for MediaTek:

- 5G-Modems integrated to industry-level devices
  - mmW, URLLC and AI
- Run-time environment at edge cloud for service creation
- Data security
- Guaranteed quality per network user / service with Network slicing
- 5G suitability for industry use
- Interaction between private/isolated network and existing commercial network
Bringing 5G to Everyone Across Mobile, Home & Auto

This Chip Changes Everything