

Nokia Networks And China Telecom Mark Major Milestone In World-First FDD-TDD Carrier Aggregation Powered By Marvell's 5-Mode LTE Release 10 Modem Chipset

Marvell achieves world's first FDD-TDD convergence with its 5-Mode LTE Release 10 Modem Chipset

SANTA CLARA, Calif., Sept. 22, 2014 /PRNewswire/ -- [Marvell](#) (NASDAQ: MRVL) a worldwide leader in integrated silicon solutions, today announced that Nokia Networks and China Telecom marked a major milestone in world's first FDD-TDD carrier aggregation powered by Marvell's 5-mode LTE Release 10 modem chipset. Marvell's 5-mode modem chipset supports China's most popular cellular modes including: Time Division Long-Term Evolution (TD-LTE), Frequency Division Duplexing Long Term Evolution (FDD-LTE), Time Division Synchronous Code Division Multiple Access (TD-SCDMA), Wideband Code Division Multiple Access (WCDMA) and Global Systems for Mobile (GSM). Marvell's modem, additionally, has achieved a technical feat of LTE release 10 (R10) CAT 7 for carrier aggregation (CA). The first demonstration of this convergence was done by China Telecom with Marvell's LTE R10 modem chipset.

"This is a very significant milestone for Marvell to power the world's first FDD-TDD convergence for 4G LTE solutions with Nokia Networks and China Telecom. I'm very pleased with our technical achievement in partnership with global operators in delivering the most advanced 4G LTE technology," said Weili Dai, President and Co-Founder of Marvell. "4G LTE is such a critical technology for bringing mobile broadband access to all consumers around the globe and advancing the 'Smart Life and Smart Lifestyle' vision. I believe that through continued innovation, invention and dedication our talented global engineering teams have yet again raised the technology bar in advancing the mobile industry. Our mission and passion at Marvell are to make the world a better place for all."

A stable peak download speed of 260 Mbps was achieved in the carrier aggregation demonstration with FDD 20 MHz in 1.8 GHz and TDD 20 MHz in 2.6 GHz spectrum. The FDD spectrum contributed to a total speed of 150 Mbps while TDD spectrum contributed to 110 Mbps. Leveraging the carrier aggregation in Marvell's chipset, operators now can more efficiently use spectrum resources while providing the best LTE service experience.

About Marvell

Marvell (NASDAQ: MRVL) is a global leader in providing complete silicon solutions and Kinoma® software enabling the "Smart Life and Smart Lifestyle." From mobile communications to storage, Internet of Things (IoT), cloud infrastructure, digital entertainment and in-home content delivery, Marvell's diverse product portfolio aligns complete platform designs with industry-leading performance, security, reliability and efficiency. At the core of the world's most powerful consumer, network and enterprise systems, Marvell empowers partners and their customers to always stand at the forefront of innovation, performance and mass appeal. By providing people around the world with mobility and ease of access to services adding value to their social, private and work lives, Marvell is committed to enhancing the human experience.

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