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Marvell and Samsung Drive Innovation in a New Generation of 5G Infrastructure Products

Long-term Collaboration Targets A Growing Ecosystem of 5G Applications

SANTA CLARA, Calif., March 3, 2020 /PRNewswire/ -- Marvell (NASDAQ: MRVL) and Samsung Electronics Co., Ltd., today announced that the companies are extending their collaboration to encompass infrastructure innovations across additional segments of the Radio Access Network (RAN). Marvell and Samsung have worked closely to deliver multiple generations of market-leading baseband and transport processing solutions for base stations based on Marvell's OCTEON® and OCTEON Fusion® processors. In addition, the companies are collaborating on innovative radio unit architectures designed to meet the dramatic increase in compute power required for the complex beamforming algorithms inherent to massive MIMO deployments. Building on the OCTEON Fusion platform and integrating Samsung's unique intellectual property provides a differentiated offering while speeding time-to-market with an optimized solution.

Network operators are facing the difficult challenge of rolling out cost-effective 5G network infrastructure, while addressing the complexities of higher spectrum frequencies, massive MIMO antenna arrays and super low latencies. Marvell and Samsung are addressing these issues by developing highly integrated solutions with a unique combination of programmability and performance. Based on the OCTEON Fusion platform, these solutions are also immediately enabled by the broad software ecosystem it provides.

"Samsung is committed to helping mobile operators meet their performance targets," said Jaeho Jeon, executive vice president and head of R&D, Networks Business at Samsung Electronics. "Our relentless spirit to find innovative ways to address the next set of 5G market challenges will drive us to enhance our 5G technical capabilities. Marvell is a valued collaborator in helping us achieve these goals."

"Marvell believes that close collaboration with Samsung has allowed both companies to excel in the 5G infrastructure market," said Raghib Hussain, chief strategy officer and executive vice president of the Networking and Processors Group at Marvell. "It is our goal to ensure that infrastructure equipment suppliers such as Samsung can allow network operators to thrive in the fast-paced world of 5G."

To learn more about our network infrastructure solutions, please visit www.marvell.com/solutions/carrier/.

About Marvell

Marvell first revolutionized the digital storage industry by moving information at speeds never

thought possible. Today, that same breakthrough innovation remains at the heart of the company's storage, processing, networking, security and connectivity solutions. With leading intellectual property and deep system-level knowledge, Marvell's infrastructure semiconductor solutions continue to transform the enterprise, cloud, automotive, industrial, and consumer markets. To learn more, visit: <https://www.marvell.com/>

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