Orion Technology Group integrates Doodle Labs datalinks into X BLUE NANO line of ultra small nano-drones

New modular, tiny, NDAA-compliant drone platform fills gap for DoD and other tactical teams for ISR to be showcased at Xponential 2024

LOS ANGELES, CALIFORNIA, UNITED STATES, April 19, 2024 /EINPresswire.com/ -- Orion Technology Group, a manufacturer of advanced artificial intelligence UxVs and mission software, today announced the integration of Doodle Labs' cutting-edge Mesh Rider Radios

Orion's new X2 BLUE NANO, a cargo pocket-sized nUAS with indoor and outdoor autonomous navigation capabilities, leverages a Doodle Labs datalink.

into its full line of AIM BLUE drones, including its newest X2 BLUE NANO, a cargo pocket-sized nUAS with indoor and outdoor autonomous navigation capabilities.

Orion's Artificial Intelligence Mission (AIM) system includes three AI aerial platforms with payloads up to 10kg. The smallest, the X BLUE NANOs, fills the need for a person-portable, body-worn UAS platform that is fully autonomous, easily carried and can provide GPS-denied ISR (intelligence, surveillance and reconnaissance) indoors and outdoors for tactical military and public safety teams. The company's nano line includes five different airframe options, modular motors and prop guards and a multitude of swappable payloads, including cameras, thermal and LIDAR scanners.

Integrating Doodle Labs' low-SWaP (size, weight and power) Mesh Rider Radio as an available on-board datalink across the entire line provides resilient connectivity and enables advanced performance in contested and disconnected spaces without compromising even the nano drones' tiny profiles. The X2, the lightest frame in the modular suite of drones can be configured under 249 grams, or just over half a pound.

Doodle Labs' radios are themselves incredibly small – the 2x2 MIMO mini Mesh Rider Radio weighs just 34 grams, while the 1x1 SISO nano version is only 26 grams – but do not skimp on performance. The company's mini Mesh Rider Radio delivers up to 80Mbps of throughput and

has been field-verified to transmit full HD video at 20+ kilometers.

Development of Doodle Labs' Mesh Rider Radio was sponsored in part by the US Department of Defense's Defense Innovation Unit (DIU), is on the [Blue UAS](#) Cleared components list and is NDAA-compliant. Orion's full line of X BLUE NANO drones is also NDAA-compliant.

Doodle Labs will showcase the X2 BLUE NANO alongside its full Mesh Rider Radio lineup at its booth at Xponential 2024, one of the world's largest drone and robotics trade shows, April 23-25 in San Diego.

Doodle Labs' nano Mesh Rider Radio enables a long-range, high-throughput datalink for SWaP-conscious UAVs.
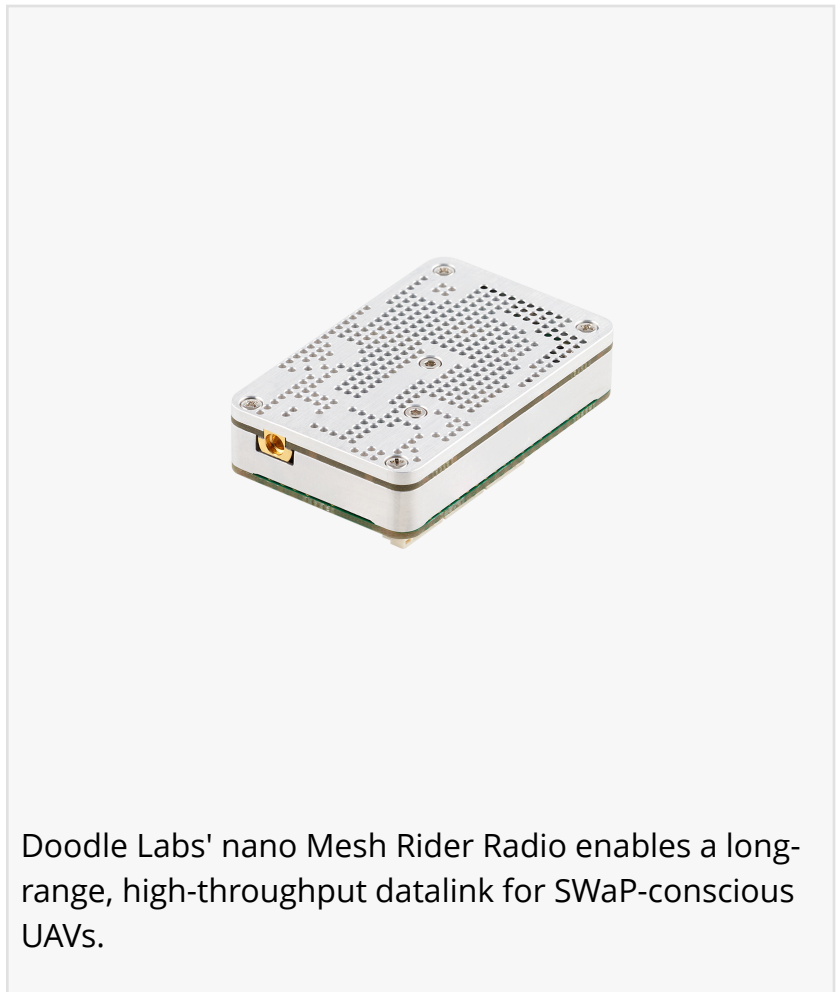
"We're always excited to learn about the new and innovative ways our customers leverage the Mesh Rider Radio, so we're looking forward to showcasing such a unique nano-drone on our booth at Xponential," said Doodle Labs Co-CEO Amol Parikh. "There's a real demand for flexible, compact, high-performance UAV platforms within the DoD, law enforcement and other agencies with tactical teams. We're happy our high-bandwidth, low-latency radios are such a perfect fit for these newest models from Orion."

"Our nanos, tethered and even our 10kg payload AI drones were designed to be NDAA compliant and meet specific client requirements including ATAK control, modularity and being AI swarm capable out of the box. The Mesh Rider Radios met all the requirements for a high-performance, cost-effective radio that could meet the extreme SWaP needs of the latest X BLUE NANOs," said Orion's CEO Seth Spiller.

About Orion Technology Group
Orion Technology Group designs and manufactures NDAA compliant artificial intelligence unmanned aerial and ground vehicles (UxVs) for tactical industrial users worldwide. The use of a mobile open systems architecture enables inclusion of new technology, sensors and software in the rapidly evolving artificial intelligence robotics industry. Orion platforms are in use on four continents in tactical as well as industrial applications.

Orion Technology Group was founded in 2020 with offices in the United States and United Kingdom. For more information, visit http://www.oriontechnologygroup.com.

About Doodle Labs LLC
Doodle Labs designs and produces industrial-grade wireless networking solutions. The company focuses on mesh networking for robotic systems, providing high throughput, long-range Mesh Rider solutions for UAVs, UGVs, AMRs, connected teams, government/defense, private wireless and other applications. The company's Helix Mesh Rider Radio was developed with sponsorship from DIU and is the Blue UAS program's datalink of choice. Doodle Labs was named to Fast Company's list of "The World's Most Innovative Companies of 2024," checking in at no. 2 in the Robotics category.

Doodle Labs was founded in 1999 and has offices in the United States and Singapore. For more information, visit http://www.doodlelabs.com

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