



Controlling revolutionary drone operations from a precision-crafted laptop.

How the ASUS ExpertBook B5 Flip supports Revolution Aerospace to create revolutionary advances in autonomous systems technologies.



Revolution Aerospace is an Australian owned and operated start-up dedicated to benefiting society through revolutionary advances in autonomous systems technologies. Since its foundation in 2021, the company has grown to a ten-strong team with operations across Queensland and the Australian Capital Territory.

"As a multi-domain technical aerospace company, we provide engineering, policy, and regulatory support to government and private industry clients, helping them breakdown complex autonomous systems problems," explains Melissa Alexiou, Revolution Aerospace's Head of Strategy and Marketing. "We also reinvest a significant portion of revenue into our high-end research and development aspirations to enable our Revolution Aerospace product line."

"Our skillsets range from aerospace and systems engineers to software experts and marketing specialists. A business laptop that supports the diversity of our workforce is fundamental to the successful delivery of our services."

As a future-thinking agile business, Revolution Aerospace operates without an office, enabling its team to take maximum advantage of flexible working conditions.

"Our technical aerospace services require our teams to work at clients' sites, in the field, or from home,"

"Having a lightweight, portable, and capable business laptop that we can use anywhere supports our hybrid working ethos."

A verified Intel® Evo™ laptop, the ASUS ExpertBook B5 Flip makes light work of Revolution Aerospace's tasks. Powered by the latest 11th Gen Intel® Core™ i7 processor with Iris® Xe graphics, comprehensive I/O ports, and superfast Wi-Fi™ 6, the ExpertBook B5 provides the team with the best in performance, efficiency, and connectivity.

"More processing power means faster and more efficient operations when time is money," says Melissa. "The ExpertBook's performance allows us to do more advanced research activities directly on our laptops. The 360° flippable OLED touchscreen and stylus are particularly advantageous as we use the ExpertBook as a tablet for articulating a concept in a graphical sense. Our CEO is also extremely impressed with the ExpertBook's ability to power three external 4K UHD displays from one portable device that just works. It's a game-changer!"





Revolution Aerospace is currently using one of its ASUS ExpertBook B5 Flip laptops as a Ground Control Station for drone operations.

“Being able to fly a drone from the laptop is an enabler for any in-field testing we need to conduct,” says Melissa.

“For example, in the detection and tracking thread, we’re currently developing a Detect And Avoid (DAA) payload for Small Uncrewed Aerial Systems (UAS) and are field testing this payload using our ASUS ExpertBook.”

The ASUS ExpertBook B5’s two SSDs support RAID storage technology, allowing multiple drives to behave as one for superior performance and improved data security. “Ensuring that our data is reliably protected from corruption or failure is critical,” says Melissa. “In a drone operation context, a single point of failure without RAID could end a mission. Thanks to the ExpertBook’s technology, we have the confidence to see the mission through.”

The ASUS ExpertBook B5 Flip laptop is designed to meet and surpass exacting industry thresholds, including the ultra-demanding MIL-STD 810H US military standard. Built to survive every extreme, it’s proving a seriously durable partner for Revolution Aerospace’s field operations.

“The ExpertBook that’s being used as a Ground Control Station in the field is subjected to worse conditions than most office spaces,” says Melissa. “Having a bright screen and being highly durable and reliable is crucial to uninterrupted operations and gives us confidence that we won’t have issues.”

Revolution Aerospace’s ASUS ExpertBook B5 is lighter, stronger, and more portable, weighing in at just over 1kg and measuring an ultrathin 16.9mm. It provides the team with up to 14 hours of battery life¹ on a single charge, keeping them productive and connected everywhere.

“We’ve recently established a Singaporean subsidiary and have a significant amount of international travel planned to the island as well as across the globe when we represent Revolution Aerospace at international forums,” says Melissa. “Our ASUS ExpertBooks minimise our staff’s travel load. When we’re on the move, battery life is key. We’re away from mains power at some of our sites and in the field, so the ExpertBook’s ability to see the day through with a single charge is a necessity.”

“The ability to move interstate and overseas and still work on demand is absolutely critical for us. The ExpertBook B5 Flip is highly durable and compatible and has exceptional build quality.”

Revolution Aerospace is set to build cutting-edge technologies for emerging autonomous systems for defence, government, and industry. Its research and development strategy focuses on Detection and Tracking, Artificial Intelligence and Machine Learning, Signal Processing, and Network Design and Optimisation.

For more information about Revolution Aerospace, visit www.revnaero.

“One of the ASUS ExpertBook’s highlights for us is being able to run UAS Ground Control Station software on the laptop. The experience is smooth and highly functional. There are no issues with graphics performance, RAM running out, or the CPU overloading. Additionally, with superior battery life, we can use it in a deployed context without heavy reliance on backup power.”

A message from Leon Brumen, Head of Commercial at ASUS ANZ

“The precision-crafted ASUS ExpertBook B5 Flip proves it has the power to turn the world of Revolution Aerospace’s autonomous systems technologies. Future-proofed with performance, graphics, data security and connectivity technologies, it’s the ideal choice for the company’s ultimate hybrid working lifestyle. The ExpertBook B5’s use as a drone Ground Control Station in the field is a testament to Revolution Aerospace’s confidence in its reliability, capability, and durability. We look forward to following the company’s undoubtedly exciting future and wish the team great success.”

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