

FROM COMPUTE TO CONTROL: INSIDE SYSGRATION'S COMPLETE UAV HARDWARE SUBSYSTEM AND GLOBAL PRODUCTION



Sysgration leverages Tier-1 manufacturing excellence to deliver a complete, NDAA/TAA-compliant UAV integrated subsystem ecosystem produced across its 100,000 ft² Dallas, Texas plant and high-capacity facilities in Taiwan. For edge intelligence, the SMC-600/800 Aerial AI Modules utilize Qualcomm® QCS processors to deliver up to 48 TOPS of AI performance, enabling real-time obstacle avoidance and up to 8K video processing for 8 camera inputs. Mission control is handled by the GCS-6070 Tactical Ground Control Station, a rugged, MIL-STD-810H and IP65-rated powerhouse featuring a 7-inch, 1500-nit display, Wi-Fi 7 connectivity, and a secure, dual hot-swappable battery architecture. Sustaining these operations are Sysgration's Intelligent Battery Systems, which feature a proprietary BMS for precise tracking and offer custom configurations ranging from 24Wh to 850Wh using high-burst Polymer or extended-endurance Cylindrical cells.

Partner with Us

By unifying high-performance AI compute, rugged tactical control, and smart power systems under an NDAA/TAA-compliant global manufacturing footprint, Sysgration provides a secure, fully integrated foundation for next-generation autonomous flight. Ready to elevate your platform? Contact us at marketing.amd@sysgration.com to integrate these mission-critical subsystems today.