

# A High G, MEMS Based, Deeply Integrated, INS/GPS, Guidance, Navigation and Control Flight Management Unit

Timothy M. Buck – Honeywell International  
Jason Wilmot – Honeywell International  
Michael J. Cook – Rockwell Collins

**Abstract** - Integrated Guidance Systems LLC (IGS LLC), a joint venture between Honeywell and Rockwell Collins, has developed the next generation, Deeply Integrated (DI) guidance, navigation and control product which will meet the emerging demands of military applications. The guidance, navigation and control Flight Management Unit (FMU) is based on Selective Availability Anti-Spoof Module (SAASM) and Micro Electromechanical System (MEMS) sensor technology and is housed in a small, light weight, low power package. In addition to meeting the demands of the military's gun-hardened guided projectile and missile applications, the FMU has applicability in soldier personal navigation systems and military/commercial attitude, heading and reference systems (AHRS). When coupled with Honeywell's second generation C++ based Embedded Computer Toolbox and Operating System (ECTOS™ IIc), the FMU can be utilized easily and effectively for rapid prototyping demonstration (including customer generated guidance and control software), as well as full production systems. Utilizing the latest processor technology, the FMU has been designed to accommodate the next generation INS/GPS Ultra Tightly Coupled (UTC) algorithms. The UTC algorithms, together with the embedded hardware anti-jam electronics, enables the FMU to perform in the otherwise potentially disabling environment of today's battlefield. The FMU has been tested to 20,000 G's (battery backed state), successfully demonstrating the hardware components survive and perform after exposure to the high G environment.

This paper presents an overview of the FMU and ECTOS™ IIc software. The hardware architecture and technical specifications of the FMU will be presented, along with a more detailed look at its high G and anti-jam capability. Performance will be reviewed as well as the IGS LLC's approach to providing a deterministic IEEE 1394b bus protocol. Finally, the software architecture, capability, and customer usability / programmability features of ECTOS™ IIc will be described.

## INTRODUCTION

There exists a growing demand for a small, low cost, low power, high G Flight Management Unit (FMU) to meet the demanding requirements of today's military and commercial applications. IGS LLC is addressing this need with the

development of the FMU as shown in Fig. 1. The FMU incorporates the enabling technologies of MEMS sensors, a miniaturized SAASM compliant GPS receiver and anti-jam electronics to produce a deeply integrated INS/GPS system in a 14 cubic inch package.

The FMU provides all the flight essential avionics functions of flight control, guidance, navigation, and mission management. The FMU is designed for the demanding requirements of guided projectile applications with the capability of withstanding a 20,000 G gun launch shock and subsequently navigating to the target with a 5m CEP GPS aided accuracy. Rockwell Collins' anti-jam electronics, in conjunction with Honeywell's proprietary Vector Tracking Loop (VTL) algorithms, realize an Ultra Tightly Coupled (UTC) INS/GPS system with 89 dB of jamming suppression. This high accuracy and robust AJ performance is ideal for realizing low collateral damage in urban close combat situations.

The system also provides the capability for the user to tailor the capabilities and external interfaces allowing the FMU to be installed on a wide variety of military and commercial platforms. The unit operates with +5v host vehicle electrical power input while capable of providing outputs of linear acceleration, linear and angular velocity, position, attitude (roll, pitch), heading, time tags, and time.

The FMU is delivered with the next generation of Honeywell's innovative ECTOS

# Ieee Paper On Mems Based Navigation

**Michael Rajnik**



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