The Esterline Avionics Systems business platform designs and produces an extensive portfolio of advanced displays and the CMC Electronics brand of innovative avionics products for the aviation markets. Its integrated helicopter avionics solutions for commercial and military customers are a core capability.

The company’s integrated helicopter avionics are designed to optimize the flight crew’s navigational and situational awareness while having successful missions suitable for military and commercial users. The core of the solution consists of Smart Multi-Function Displays (SMFD), Flight Management Systems (FMS), TacView® Portable Mission Displays, Global Positioning System (GPS) receivers, Doppler Velocity Sensors, mission computers, and a wide range of high-performance display products. The solutions are flexible to allow for multiple levels of modernization; from a minor upgrade to a full avionics suite tailored to a customer’s level of modernization/customization needs.

The company’s Electronic Flight Instrument System (EFIS) display provides overall situational awareness, including information pertaining to primary flight, engine performance, systems and navigation. The EFIS uses a maximum of five interchangeable SMFDs, each with a 6x8 inch Active Matrix Liquid Crystal Display (AMLCD). The SMFD includes knobs and buttons directly on the bezel to allow primary selection and sensor source selection.

The company’s communication, navigation, surveillance / air traffic management (CNS/ATM) aligned solutions extend the operational life of aircraft. The CMA-9000 FMS is a field-proven, highly integrated and flexible product that is optimized for helicopter operations. It provides flight management and multi-sensor navigation throughout all phases of flight as well as radio management and many specialized functions that help reduce pilot workload during mission-critical applications such as SAR and offshore operations. The CMA-9000 supports both military and civil navigation modes, with compliance to the latest standards for Required Navigation Performance (RNP) and Satellite Based Augmentation System (SBAS) approaches. The integrated radio management system offers savings in terms of size, weight, power and cost on the helicopter. Night Vision Goggle (NVG) capability enables night-time operations for police, SAR and EMS operators, making the CMA-9000 the FMS of choice for demanding helicopter applications.

CMC’s CMA-5024 GPS Landing System Sensor meets the requirements for an Instrument Flight Rules, civil certified Global Navigation Satellite System (GNSS). The CMA-5024 provides Wide Area Augmentation System (WAAS) SBAS GPS capability from departure to Non Precision Approach that complies with published CNS/ATM navigational mandates. WAAS/SBAS augments GPS to provide an extremely accurate navigation solution that will support all flight operations from en route through GNSS and WAAS/SBAS Localizer Performance with a Vertical Guidance (LPV) CAT-1 equivalent approach. The CMA-5024 is provisioned for growth to GBAS with a built-in VHF Data Broadcast (VDB) receiver.
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