RELIABLE SENSOR FAMILY

The Endevco 7290EM5 series features ranges from 2*g* to 100*g* with precision digital temperature compensation ideal for low-frequency aircraft testing, including watertight performance for outdoor installations. Gas damping and internal over-range stops allow this transducer to withstand high *g* shock and acceleration loads. Sensors feature +0.2% full-scale output (FSO) typical non-linearity and hysteresis for most ranges.

The Endevco family includes piezoelectric, piezoresistive, Isotron and variable-capacitance accelerometers, piezoresistive pressure transducers, microphones, electronic instruments and calibration systems. All are designed to ensure critical accuracy and reliability in aerospace, automotive, defense, industrial, medical, power generation, R&D, space, and test and measurement applications. \\

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MEGGITT SENSING SYSTEMS

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WHAT'S THE PROTOCOL?

The new ANET-MxAy Mixed Protocol ANET has a maximum of two dual redundant MIL-STD-1553 streams and up to 12 ARINC429 channels. The MIL-STD-1553 section offers concurrent bus controller, multiple RT simulator (31) with a mailbox and chronological monitor functions. All the ARINC429 channels are fully software programmable for Tx/Rx mode as well as low- (12.5kBit/s) and high-speed (100kBit/s) operation.

Standard ANET features like IRIG-B I/O, discrete I/O, trigger I/O and a general-purpose USB2.0 port for hosting USB devices are available for the mixed-protocol ANET with the Ethernet interface supporting 10/100/1000 Ethernet links. An onboard buffered real-time clock (RTC) is also available by default.

The ANET-MxAy is offered with the standard AIM ANET housing as well as a rugged housing variant.

The API interface is compatible with the API of the individual MIL-STD-1553 and ARINC429 ANET interfaces for a very efficient migration path for the customer's application software. Powerful ANET features such as the onboard Python scripting, customer-written C applications and the optional PBA.pro Engine (for execution in the box) are also available via the embedded Linux-based application support processor.

The PBA.pro test and analysis software for Windows and Linux supports the mixed-protocol ANET using the standard resource components for MIL-STD-1553 and ARINC429, as well as the AIM ARINC615-3 data loader extensions PBA.pro-ARINC429-LDR. The AIM EasyLoad-429 standalone data loader application also supports the mixed-protocol ANET for 615-3 data loading via ARINC429. \\

IMPROVED VIBRATION FATIGUE
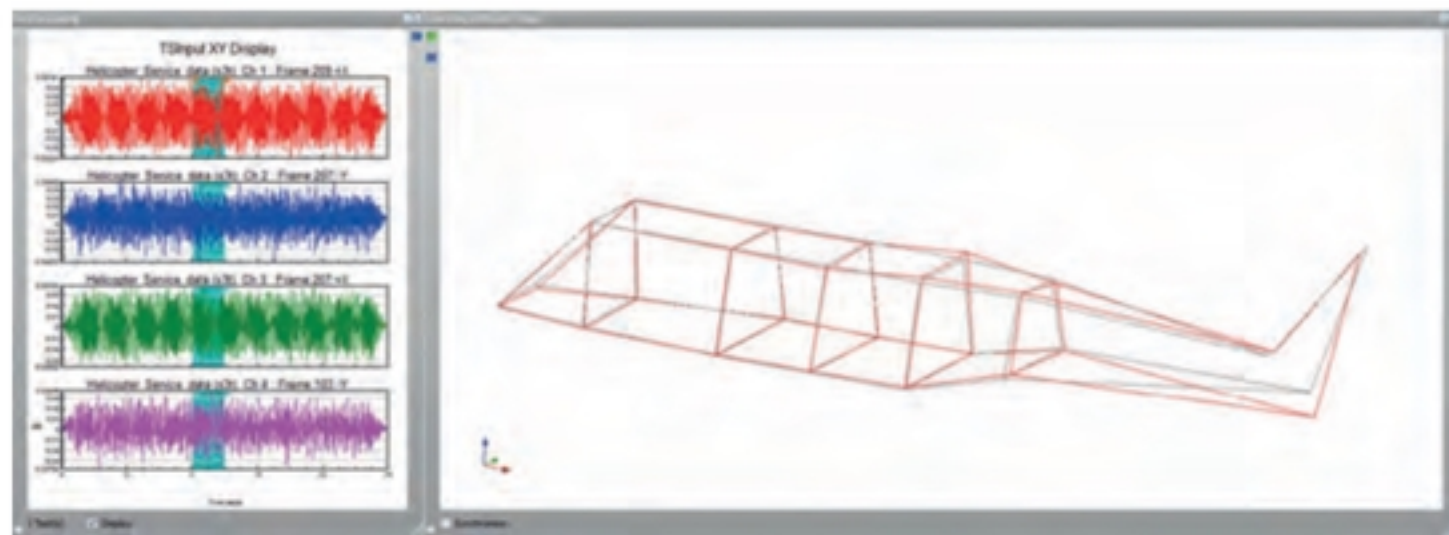
Aerospace engineers are challenged with maintaining the reliability, safety and robust operation of aircraft and equipment. These engineering challenges are broad in scope, ranging from managing vibration to predicting and extending product life to quickly validating new designs through analytical means such as finite element analysis (FEA) based simulation. HBM Prenscia offers a way to improve the accuracy of these FEA-based fatigue life predictions through the introduction of experimental modal analysis in nCode VibeSys. The addition of modal analysis helps engineers solve noise and vibration problems by answering important questions early on in the development process.

Within nCode VibeSys, users can quickly obtain the natural frequencies, damping ratios and mode shapes of a structure from experimental test. It is also possible to compare the mode shapes obtained experimentally with modal results from FEA with VibeSys's new ODS glyph to investigate modal assurance. \\

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