

Hamilton Sundstrand selects austriamicrosystems' TTP Controller for Boeing 787 Dreamliner

Unterpremstaetten, Austria (January 19, 2007) – austriamicrosystems (SWX: AMS), a leading global designer and manufacturer of analog integrated circuits for automotive, industrial, medical and communication applications, has been selected by Hamilton Sundstrand Corporation to supply TTP controllers for use in the Boeing 787 Dreamliner. The AS8202NF controller IC forms the core of the TTP-based data communication platform in Hamilton Sundstrand's electric and environmental control systems for the Boeing 787 Dreamliner series. This high-speed data bus controller, with a communication speed of up to 25Mbit/s, implements the innovative Time-Triggered Protocol (TTP®).

As a platform technology for fault-tolerant distributed embedded computing, TTP offers enhanced levels of reliability, availability and safety for aerospace applications. TTP-based systems with AS8202NF onboard require less wiring and weigh less, while providing greater modularity and flexibility than conventional communication systems. The result is a reduction of the total life cycle cost for Hamilton Sundstrand's Common Electronic Architecture (CEA). The Boeing 787 Dreamliner is the second commercial air transport production program within the Hamilton Sundstrand group that applies the AS8202NF controller.

austriamicrosystems' AS8202NF is the third generation of TTP controllers implementing the C2NF chip IP model licensed from TTTech Group. The device received automotive qualification from the SAE automotive standard AEC-Q100 in 2003. AS8202NF is certifiable to highest aerospace criticality levels. Several aerospace companies performed substantial aerospace environmental tests in systems using this TTP controller. First flights of safety-critical systems, based on the AS8202NF, were performed in 2004.

AS8202NF has been selected for aerospace applications, including distributed control systems in several electric aircraft, and modular engine control systems (FADEC) in other aircraft. austriamicrosystems' experience in high volume mass production of advanced semiconductor components guarantees high reliability and quality of the delivered AS8202NF over the lifecycle of aircraft programs.

austriamicrosystems has a successful track record of providing stable and proven semiconductors using the mature TTP technology for most demanding aerospace industry needs. austriamicrosystems and TTTech have designed and manufactured TTP controllers since 1998, with AS8202NF representing the third TTP controller generation. This work has resulted in the foundation of the TTA-Group, which promotes open use of this technology in several industries.

“austriamicrosystems is committed to long-term supply of TTP controllers for applications ranging from railway to aerospace industry,” said Bernhard Czar, Director Marketing Automotive at austriamicrosystems. “Time-Triggered Architecture's substantial customer value, combined with austriamicrosystems' expertise in high performance analog semiconductors, provide a considerable competitive advantage for our customers.”

Hamilton Sundstrand statement

“The TTP protocol provides Hamilton Sundstrand flexibility in designing distributed electronic systems. Because of TTP’s modularity, we can more effectively integrate our systems, improve tolerance to system upgrades, and better manage obsolescence,” said Luiz Andrade, Chief Engineer at Hamilton Sundstrand Electric Systems.

Boeing statement

“Boeing always seeks suppliers who provide the highest quality at the best value. We are delighted that a high-tech Austrian supplier like austriamicrosystems is contributing to the Boeing 787’s advanced capabilities,” commented Michael Tull, Director of Communications at Boeing International & Sales Communications Europe.

About austriamicrosystems

austriamicrosystems is a leading designer and manufacturer of high performance analog ICs, combining more than 25 years of analog design capabilities and system know-how with its own state-of-the-art manufacturing and test facilities. austriamicrosystems leverages its expertise in low power and high accuracy to provide industry-leading customized and standard analog products. The company focuses on the areas of power management, sensors & sensor interfaces, portable audio and car access in its markets Communications, Industry & Medical and Automotive, complemented by its Full Service Foundry activities.

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