

MIL-STD-1553 Multi-terminal ICs Replace Multi-chip Modules

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available alternatives to the existing multi-chip module solutions on the market today,” said David Mead, Executive Vice President and COO at Holt. “The new devices fill out Holt’s complete range of lower cost, short lead-time MIL-STD-1553 products for this important market.”

The HI-6130 and HI-6131 can be configured for automatic self-initialization, further minimizing external host interaction. A dedicated SPI port reads data from an external serial EEPROM memory to fully configure the internal RAM, registers and host interrupts.

The HI-6130 uses a 16-bit parallel host bus interface in a 100-pin PQFP package. The HI-6131 uses a 4-wire Serial Peripheral host Interface (SPI) and comes in a 64-pin PQFP and 64-pin QFN. At only 9mm x 9mm x 1mm, the 64-pin QFN is the world’s smallest multi-terminal solution. Both devices handle all aspects of the MIL-STD-1553 protocol, including message encoding, decoding, error detection, illegal command detection and data buffering. Host data management is simplified by storing message information and data in the on-chip 32K x 16-bit static RAM.

The devices are offered in industrial -40°C to + 85°C, or extended, -55°C to + 125°C temperature ranges as well as extended temperature range with optional burn-in. All package configurations and temperature ranges are also available in a “RoHS compliant” lead-free option. Datasheet, samples and evaluation kits for both devices, along with supporting software, are currently available on request.

Readers interested in learning more about Holt’s range of ARINC 429 or MIL-STD-1553 products should contact Holt at (949) 859-8800, by e-mail at info@holtic.com [2], or by visiting the Holt Web site at www.holtic.com [3].

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[1] http://www.holtic.com/data_sheets.cfm

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