Fact Sheet

Military Semiconductor Products

Highlights:

GS30 uses Texas Instruments TImeCell™ Architecture, which combines the cost-efficiency of standard cells with the fast time-to-market of gate arrays on the same silicon. TI provides a full range of product options to address the challenges of producing ultra-dense, low-power devices that take advantage of system integration.

Technology Features:

- 0.15-µm CMOS TImeCell Technology
- 1.8-V Supply Voltage
- 3.3-V I/O
- Ultra-low Power Consumption (0.018 μW **/** MHz **/** Gate)
- Four or Five Levels of Metallization
- High Density (75,000 gates/mm^2 @ 50,000 gates)
- Support for SubChip Layout
- Design Support for Synopsys™, Cadence™, and Mentor™ Tools
- Support for Synopsys PrimeTime™ Static Timing Analysis
- Avant! Planet™ Third Party Floorplanner
- Memory Compiler for Custom Memory Configurations
    - Single Port RAMs
    - Dual Port RAMs
    - Two Port RAMs
    - ROMs
- Full IEEE 1149.1 (JTAG) Support
- Clock Tree Synthesis

Packages:

- Plastic and Ceramic Package Options
- High Performance PGA, QFP, BGA Packages
- Bare Die

Production Processing:

- MIL-PRF-38535 (QML)
    - DSCC SMD # TBD
- TI Standard Extended Temperature Flow
- TI Standard Bare Die Flow

TEXAS INSTRUMENTS

Contacts:

- TI Military ASIC Homepage:
  http://www.ti.com/sc/docs/military/product/asic/asic.htm

- **Product Information Center**

  North America

  Telephone #:   972-644-5580 (English)
  Fax # :   972-480-7800
  PIC: www.ti.com/sc/docs/pic/americas.htm
  PIC E-Mail :   sc-infomaster@ti.com
  Military Products :   www.ti.com/sc/docs/military/welcome.htm
  Distributor Listing : www.ti.com/sc/docs/distmenu.htm

  Europe

  Multilingual Technical Hotline

  Francais: +33-(0)1-30 70 11 64
  English: +44 (0)1604 66 33 99
  Italiano: +33-(0)1-30 70 11 67
  Deutsch: +49-(0)8161-80 33 11
  E-Mail: epic@ti.com
  24 Hours FAXLINE   +33-(0)1-30 70 10 32

  Application Support (via modem)

  BBS: +33-(0)1-30 70 11 99
  Internet: www.ti.com

TEXAS INSTRUMENTS

IMPORTANT NOTICE

Texas Instruments Incorporated and its subsidiaries (TI) reserve the right to make corrections, modifications, enhancements, improvements, and other changes to its products and services at any time and to discontinue any product or service without notice. Customers should obtain the latest relevant information before placing orders and should verify that such information is current and complete. All products are sold subject to TI's terms and conditions of sale supplied at the time of order acknowledgment.

TI warrants performance of its hardware products to the specifications applicable at the time of sale in accordance with TI's standard warranty. Testing and other quality control techniques are used to the extent TI deems necessary to support this warranty. Except where mandated by government requirements, testing of all parameters of each product is not necessarily performed.

TI assumes no liability for applications assistance or customer product design. Customers are responsible for their products and applications using TI components. To minimize the risks associated with customer products and applications, customers should provide adequate design and operating safeguards.

TI does not warrant or represent that any license, either express or implied, is granted under any TI patent right, copyright, mask work right, or other TI intellectual property right relating to any combination, machine, or process in which TI products or services are used. Information published by TI regarding third–party products or services does not constitute a license from TI to use such products or services or a warranty or endorsement thereof. Use of such information may require a license from a third party under the patents or other intellectual property of the third party, or a license from TI under the patents or other intellectual property of TI.

Reproduction of information in TI data books or data sheets is permissible only if reproduction is without alteration and is accompanied by all associated warranties, conditions, limitations, and notices. Reproduction of this information with alteration is an unfair and deceptive business practice. TI is not responsible or liable for such altered documentation.

Resale of TI products or services with statements different from or beyond the parameters stated by TI for that product or service voids all express and any implied warranties for the associated TI product or service and is an unfair and deceptive business practice. TI is not responsible or liable for any such statements.

Mailing Address:

Texas Instruments
Post Office Box 655303
Dallas, Texas 75265