

# GT-96010A

## Remote Access Coprocessor for IDT RISController CPUs



### Features

- ♦ **Integrated high-performance serial communications engine and core logic device**
  - Six high bit rate multi-protocol serial controllers
  - 10BaseX perfect filtering Ethernet MAC
  - Two programmable Flex-TDM™ time slot assigners
  - 14 serial DMA engines and 1 independent DMA engine
  - DRAM and device controller
- ♦ **Applications**
  - ADSL/xDSL
  - ISDN (up to two BRI)
  - T1/E1, V.35, and X.21 WAN connections
  - 6 channels of E1/T1 rate Frame Relay
  - Remote access servers
- ♦ **Six high-speed multiprotocol serial controllers**
  - Bandwidth up to 8Mbps full duplex per channel
  - Synchronous/asynchronous RX/TX operation
  - Supports HDLC, BiSync, UART and transparent modes
  - Can be used directly or connected to Flex-TDM
  - Up to eight GT-96010As can be cascaded to provide 48 channels
- ♦ **Two Flex-TDM channels (time slot assigners)**
  - Supports 6 serial channels and 2 auxiliary channels
  - Highly programmable, can support many standards including GCI, IDL, PCM
- ♦ **10Mbps full duplex perfect filtering Ethernet controller**
  - Direct interface to common SIA devices
  - Programmable filtering of 1/2K or 8K MAC addresses
- ♦ **Four Baud rate generators**
- ♦ **System control functions**
  - DRAM/device controller
  - Timer/counters
  - Independent fly-by DMA engine
  - and more....

### Description

The GT-96010A provides all of the system peripherals needed to build a high-performance LAN-to-WAN connectivity device around a variety of embedded microprocessors, such as the IDT RC32364. Included in the GT-96010A are multiprotocol serial ports, an Ethernet controller, WAN PHY interfaces, and core logic.

The GT-96010A is the result of the marriage of Galileo's strengths in both system control and communications technology. Unlike other WAN devices, the GT-96010A uses hardware serial engines, allowing new levels of system performance for emerging applications such as ADSL and high-speed Frame Relay.



### CPUs Supported

RC32364

**GT-96010A Characteristics**

Operating Voltage	3.3V +/- 5%
Operating Temperature	-40 to 100C
Bus Frequency	50 MHz
Package	208-PQFP

**Evaluation Platform**

The EV-96010-RC evaluation board includes an IDT RC32364 processor, 4Mbytes of Flash, up to 64Mbyte DRAM and support for 6 serial interface modules. Galileo provides modules for 10BaseT, ISDN S/T, ISDN U, V.35, RS449, and RS232.

**Contact List**

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Galileo Technology, Inc.  
142 Charcot Avenue  
San Jose, CA 95131-1101  
USA  
Tel: 408-367-1400  
Fax: 408-367-1401  
Web: [www.galileoT.com](http://www.galileoT.com)