TL16C552APN

UART 2-CH 16byte FIFO 5V 80-Pin LQFP Tray

Manufacturer:	Texas Instruments, Inc
Package/Case:	QFP
Product Type:	Drivers
RoHS:	RoHS Compliant/Lead free
Lifecycle:	Obsolete

Images are for reference only

Inquiry

General Description

The TL16C552A is an enhanced dual-channel version of the popular TL16C550B asynchronous communications element (ACE). The device serves two serial input/output interfaces simultaneously in microcomputer or microprocessor-based systems. Each channel performs serial-to-parallel conversion on data characters received from peripheral devices or modems and parallel-to-serial conversion on data characters transmitted by the CPU. The complete status of each channel of the dual ACE can be read at any time during functional operation by the CPU. The information obtained includes the type and condition of the transfer operations being performed and the error conditions encountered.

In addition to its dual communications interface capabilities, the TL16C552A provides the user with a bidirectional parallel data port that fully supports the parallel Centronics-type printer interface. The parallel port and the two serial ports provide IBM PC/AT-compatible computers with a single device to serve the three system ports. A programmable baud rate generator that can divide the timing reference clock input by a divisor between 1 and (216 - 1) is included.

The TL16C552A is available in a 68-pin plastic-leaded chip-carrier (FN) package and a 80-pin TQFP (PN) package. The TL16C552AM is available in a 68-pin ceramic quad flat (HV) package.

Key Features

IBM PC/ATTM Compatible

Two TL16C550 ACEs

Enhanced Bidirectional Printer Port

16-Byte FIFOs Reduce CPU Interrupts

Up to 16-MHz Clock Rate for up to 1-Mbaud Operation

Transmit, Receive, Line Status, and Data Set Interrupts on Each Channel Independently Controlled

Individual Modem Control Signals for Each Channel

Programmable Serial Interface Characteristics for Each Channel:

5-, 6-, 7-, or 8-Bit Characters

Even, Odd, or No Parity Bit Generation and Detection

1-, 1-1/2-, or 2-Stop Bit Generation

3-State Outputs Provide TTL Drive for the Data and Control Bus on Each Channel

Hardware and Software Compatible With TL16C452

Recommended For You

TLV320AIC23BIPWR

Texas Instruments, Inc

TSSOP28

TLV320AIC3104IRHBR

Texas Instruments, Inc

QFN32

TL16C554AIPN

Texas Instruments, Inc

LQFP80

TLV320AIC3101IRHBR

Texas Instruments, Inc

QFN32

TL16C554APN

Texas Instruments, Inc

LQFP80

TLV320AIC24KIPFBR

Texas Instruments, Inc

TQFP-48

TL16C554PN

Texas Instruments, Inc

QFP

TLV320AIC24KIPFB

Texas Instruments, Inc

TQFP-48

TL16C752BLPTREP

Texas Instruments, Inc

LQFP-48

TL16C550DIPFBR

Texas Instruments, Inc

48-TQFP

TLC320AC01CFN

Texas Instruments, Inc

PLCC28

TL16C552AFN

Texas Instruments, Inc

PLCC

TL16C450FN

Texas Instruments, Inc

PLCC44

TL16C554FN

Texas Instruments, Inc

PLCC

TLV320AIC311IRHBR

Texas Instruments, Inc

VQFN32