

ZILOG ESCC™ CONTROLLER

QUESTIONS AND ANSWERS

PRODUCT DESCRIPTION

Q. Which of the following is the major factor in differentiating the ESCC from the USC Family?

- a. The ESCC has less communications channels than the USC
- b. The protocols supported by ESCC and USC are different

- c. The ESCC is limited in operation to less than 5 Mbps, but the USC Family can operate up to 10 Mbps
- d. The USC supports the T1 data rate, not the ESCC

A. (c) Most ESCC and USC Family members have two channels and protocols. Support by the SCC is a subset of ESCC. Both ESCC and USC can support T1 data rates so (a), (b), (d) are not correct.

Q. Which of the following is not an improvement from the SCC to the ESCC?

- a. The ESCC has deeper FIFOs
- b. The ESCC has new SDLC enhancements
- c. The ESCC has added new READ Registers
- d. The ESCC has added new WRITE Registers

A. (c) No new READ register addressing is added in the ESCC although we allowed some Write Registers to become readable through the existing READ Register.

The ESCC has 4 bytes of Tx FIFO and 8 bytes of Rx FIFO, while the SCC has 1 byte for the Tx and 3 bytes for the Rx.

The ESCC has many new SDLC enhancements, such as automatic EOM reset, automatic opening flag generation, etc.

The ESCC has added WR7' as a new WRITE Register to configure the new options, therefore, (a), (b), (d) are all differences between the SCC and ESCC.

APPLICATIONS

Q. Which of the following is a benefit from deeper FIFOs offered by the ESCC?

- a. More CPU bandwidths available for other system tasks
 - b. Can support faster data rates on each channel
 - c. Can support more channels for the same CPU
 - d. All of the above
- A. (d) (a), (b) and (c) are consequences of reduction in interrupt frequency that allows more horsepower to be delivered from the CPU.

Q. Which of the following CRC polynomials is supported in ESCC?

- a. CRC-16
 - b. CRC-32
 - c. (CRC-CCITT
 - d. (a) and (c)
 - e. (b) and (c)
- A. (d) CRC-32 is not supported in ESCC.

Q. How long does it usually take for the customer to migrate from SCC to ESCC in order to take the advantage of the FIFO?

- a. Less than 3 month
 - b. About 6 month
 - c. About a year
- A. (a) Since the ESCC is a drop-in replacement to the SCC and using the deeper FIFO only requires minimal efforts.

Q. Which of the following is an applications support the tool for ESCC:

- a. Sealevel Board
 - b. (Electronic Programmers Manual
 - c. Application Note "Boost Your System Performance Using the Zilog ESCC"
 - d. All of the above
- A. (d)

Q. Which of the following is a target application for the ESCC?

- a. AppleTalk-LocalTalk Peripherals
 - b. X.25 Packet Switches
 - c. SNA connectivity products
 - d. All of the above
- A. (d) ESCC could support the data rate and protocol required in the above applications.