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Find the *Commtech Fastcom ESCC-PCI* at our website: ***Click HERE***

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Fastcom®: ESCC-PCI

Dual Channel Synchronous Communications Adapter

w/2ft. Cable
DB37 Plug to two DB25 Plugs

$649



The FASTCOM: ESCC-PCI adapter is the one of the most advanced synchronous communications adapters in the industry. The FASTCOM: ESCC-PCI supports data rates up to 10 Mbits/s[1]. The FASTCOM: ESCC-PCI is a dual channel adapter, with each one being individually configurable to use HDLC/SDLC, ASYNC, or BISYNC protocols. Although similar to the HSCX adapter, the ESCC-PCI expands on our previous adapters with options that allow for:

- **CRC generation either CRC-32 or CRC-CCITT polynomials (CRC-16/CCITT for BISYNC)**
- **CRC reset state all 1's or all 0's**
- **Manchester line encoding**
- **FM encoding (Bi-Phase Space/Bi-Phase Mark)**
- **Preamble transmission (with repetition)**
- **BISYNC operating mode, receiving and sending BISYNC formatted data**
- **ASYNC operating mode, receiving and sending ASYNC formatted data, in true asynchronous (no clocks, data over sampled) or isosynchronous (async data format with no over sampling)**
- **Software drivers are included for Windows 2000, XP, 2003, 2003x64, and Linux kernels 2.4 and 2.6**

SPECIFICATIONS:	• **COMM. CONTROLLER:**
	  ○ SIEMENS SAB82532 (Data Sheet)
	• **DRIVERS/RECEIVERS:** RS422 / RS485
	• **CONNECTOR CONFIGURATION:**
	  ○ ANSI/EIA/TIA-530-A-1992(Category 1)
	• **BUS INTERFACE:** PCI

POWER REQUIREMENTS:	• +5V @ 300mA (typical)
ENVIRONMENT:	• Operating Temperature Range: 0 to 70 C • Humidity: 0 to 90% (non-condensing)
FEATURES:	• High speed; up to 10Mbits/s[1] • User programmable on-board clock generator • Dynamic data rates

- Drivers: RS422 / RS485 multi-drop
- Support Full-Duplex and Half-Duplex modes
- Excellent line noise immunity
    - Cable lengths up to 4000 feet
- Easier to program and use than other HDLC adapters
- **RS485 MODE:**
    - 32 Fastcom: ESCC-PCI adapters can share the same "twisted pair"
    - Driver control is automatic
- **SERIAL INTERFACE:**
    - **Two independent full duplex serial channels**
        - On chip clock generation or external clock source
        - On chip DPLL for clock recovery of each channel
        - Two independent baud rate generators
        - Independent time-slot assignment for each channel with programmable time-slot length
    - Async, sync character oriented (MONOSYNC/BISYNC) or HDLC/SDLC modes (including SDLC LOOP)
    - Transparent receive/transmit of data bytes without framing
    - NRZ, NRZI, FM and Manchester encoding
    - Modem control lines (RTS, CTS, DTR, DCD, DSR)
    - **CRC support:**
        - HDLC/SDLC: CRC-CCITT or CRC-32
        - BISYNC: CRC-16 or CRC-CCITT
    - Statistical multiplexing
    - Continuous transmission of 1 to 32 bytes possible
    - Programmable preamble (8 bit) with selectable repetition rate (HDLC/SDLC and BISYNC)
    - Collision resolution
    - Programmable bit inversion
- **Protocol Support: (HDLC/SDLC)**
    - **Various types of protocol support depending on operating mode**
        - Automatic (automatic handling of S- and I-frames; not auto configure)
        - Non-auto mode (manual)
        - Transparent mode
    - Handling of bit-oriented functions
    - Support of LAPB/LAPD/SDLC/HDLC protocol in auto mode
    - Programmable time-out and retry conditions
    - Programmable maximum packet size checking
    - Modulo 8 and 128 operation
    - Storage of up to 17 short received frames
- **MP interface and Ports**
    - 64 byte FIFO's per channel and direction
    - 8/16 bit microprocessor bus interface
    - All registers directly accessible

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	• Cable, documentation, and software drivers included • **Designed and manufactured by COMMTECH, INC. Wichita, Kansas, USA** • For a more complete and detailed list of features available on this card, please see the documentation for the Siemens ESCC2 SAB82532.

[1]Capable of 10 Mbits/s, actual rate depends on interrupt handling capabilities of your PC.

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