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REAL-TIME INTERFACE COPROCESSOR MULTIPOINT/2, 1MB OF MEMORY (#6247, P/N 16F1820)

See #6263 for detailed information.

REAL-TIME INTERFACE COPROCESSOR MULTIPOINT/2, 512KB OF MEMORY (#6263, P/N 09F1897)

The Realtime Interface Coprocessor Multipoint/2 is designed as a single-slot multiple device interface subsystem for the Personal System/2. This adapter and its related features has the facilities to support applications requiring a realtime, multitasking environment. The Coprocessor is based on a high-performance Intel 80186 microprocessor and is available with either 512Kb or 1Mb of user memory.

- o IBM Realtime Interface Coprocessor Multipoint/2 with 512Kb of memory (#6263, P/N 09F1897)
- o IBM Realtime Interface Coprocessor Multipoint/2 with 1Mb of memory (#6247, P/N 16F1820)

Highlights:

- o 512Kb or 1Mb of dual-ported memory with parity for error detection.
- o Up to eight serial input/output (I/O) ports available through the Interface Boards.
- o Asynchronous hardware support is provided on all ports. Asynchronous, bit synchronous, and character synchronous protocol hardware support is available on up to six ports.
- o Nine programmable timers.

Description: Communications between the Coprocessor and the system unit is done via shared memory and is synchronized by interrupts between the two. Interrupt levels are selectable. Once the realtime control microcode is loaded, the following functions are available:

- o Supports up to 253 concurrent tasks
- o Dynamic memory management
- o Up to 255 software timers with increments of 5ms to 327 seconds
- o Dispatch queue functions
- o Watchdog timer support

Related Features:

- o Eight Port RS-232-C Interface Board (#6265, P/N 09F1952). Provides eight

EIA RS-232-C/CCITT V.24 serial I/O ports. The Interface Board attaches to the Coprocessor adapter and includes a 78-pin connector. Asynchronous, bit synchronous, and character synchronous protocol hardware support on first two ports. Asynchronous hardware support on remaining ports. Can support 19.2K bps full duplex ASYNC protocols and 38.4K bps full duplex HDLC/SDLC protocols on either of the first two ports.

- o Four Port RS-232-C Interface Board (#6267, P/N 09F1955). Provides four EIA RS-232-C/CCITT V.24 serial I/O ports. The Interface Board attaches to the Coprocessor adapter and includes a 78-pin connector. Asynchronous, bit synchronous, and character synchronous protocol hardware support on first two ports. Asynchronous hardware support on remaining ports. Can support 19.2K bps full duplex ASYNC protocols and 38.4K bps full duplex HDLC/SDLC protocols on either of the first two ports. Only one Four Port Board may be attached to a Coprocessor.
- o RS-232-C/RS-422-A Interface Board (#6266, P/N 09F1958). Provides four EIA RS-232-C/CCITT V.24 serial I/O ports, ports 0 through 3, and four ports of EIA RS-422-A serial ports, ports 4 through 7. The Interface Board attaches to the Coprocessor adapter and includes a 78 pin connector. Asynchronous, bit synchronous, and character synchronous protocol hardware support on first two ports. Asynchronous hardware support on remaining ports. Can support 19.2K bps full duplex ASYNC protocols and 38.4K bps full duplex HDLC/SDLC protocols on either of the first two ports.
- o Eight Port RS-422-A Interface Board (#6326, P/N 15F8852). Provides eight EIA RS-422-A serial ports. The Interface Board attaches to the Coprocessor adapter and includes a 78-pin connector. The interface board provides asynchronous, bit synchronous, and character synchronous protocol hardware support on the first port. Asynchronous hardware support is provided on the remaining ports. The first port can operate at 64K bps full-duplex. Line speeds in excess of 64K bps can be achieved with appropriate adapter resident communication programs.
- o Six Port RS-232-C Synchronous Interface Board (#6327, P/N 15F8861). Provides six synchronous EIA RS-232-C/CCITT V.24 serial I/O ports. The Interface Board attaches to the Coprocessor adapter and includes a 78-pin connector. Asynchronous, bit synchronous, and character synchronous protocol hardware support is provided on all six ports. Can support 38.4K bps full duplex HDLC/SDLC protocols on either of the first two ports.
- o Multiport Interface Cable (#6246, P/N 00F5531). This cable can be used with the four-port and eight-port interface boards (#6265, #6266, #6267, and #6326). One end of this cable connects to the 78-pin connector of the Interface Board. The other end provides eight 25-pin connectors for attachment of up to eight devices. Wrap connectors are provided to test the cable when using the diagnostics.
- o Synchronous Interface Cable (#6328, P/N 15F8866). This cable is

available for use with the Six Port RS-232-C Synchronous Interface Board (#6327). One end of the cable connects to the 78-pin connector of the Interface Board. The other end provides six 25-pin connectors for attachment of up to six devices. A wrap connector is provided to test the cable when using the diagnostics.

Publications:

- o IBM Realtime Interface Coprocessor Technical Reference, (P/N 67X1234, SC28-8006).
- o IBM Realtime Interface Coprocessor Technical Reference Supplement, (P/N 15F8872, S15F-8872).
- o IBM Realtime Interface Coprocessor Multiport/2 Hardware Maintenance and Service (P/N 09F1966, SC28-8214). Available through May 25, 1989. Superseded by the Hardware Maintenance Library (P/N 15F8870, S15F-8870) effective May 26, 1989.
- o IBM Realtime Interface Coprocessor Multiport/2 Hardware Maintenance Library for Eight Port RS-422-A, Eight Port RS-232-C, Four Port RS-232-C, and RS-232-C/RS-422-A Interface Boards, (P/N 15F8870, S15F-8870).
- o IBM Realtime Interface Coprocessor Multiport/2 Hardware Maintenance Library for Six Port RS-232-C Synchronous Interface Board (P/N 15F8855, S15F-8855).

Machine Requirements: The Realtime Interface Coprocessor Multiport/2 adapter can be installed as follows:

Up to 3 per system - 7541, 7542, 8550, and 8570  
Up to 4 per system - 7561, 7562, 8560, and 8580

Programming Requirements:

- o IBM Disk Operating System (DOS), Version 3.3 or 4.0.
  - o IBM Realtime Interface Coprocessor DOS Support, Version 1.0 or later, (5686-001)
- OR
- o IBM Operating System/2 Extended Edition Version 1.0 or 1.1. or IBM Operating System/2 Standard Edition Version 1.0 or 1.1.
  - o IBM Realtime Interface Coprocessor Operating System/2 Support, Version 1.0 (5662-281), or later.

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