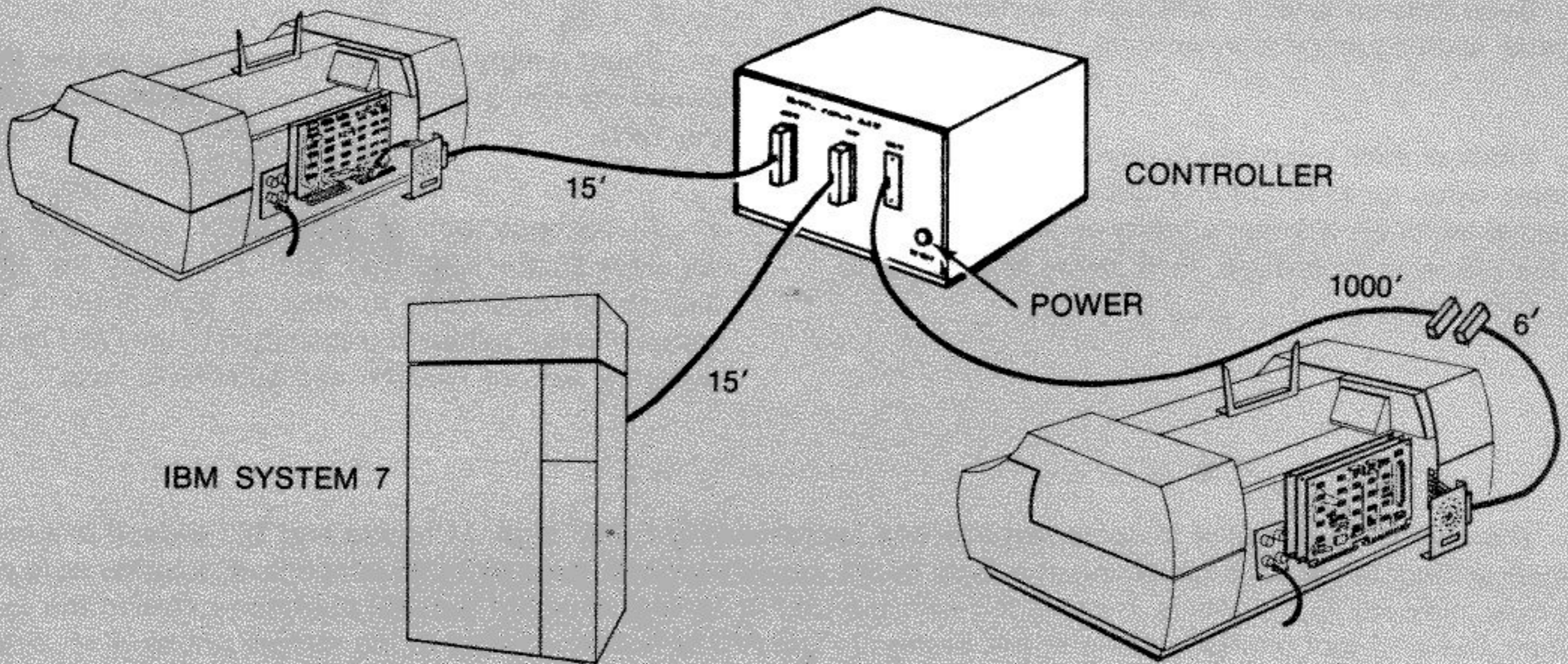


## CONTROLLER FOR IBM SYSTEM 7



### GENERAL

The Controller is designed to interface the System 7 to any of the Centronics printers (with software considerations).

The Controller accepts a parallel 8-bit input from the CPU and transmits this input through a parallel interface to a local printer (15 feet away) and through an RS232 serial interface to a remote printer (1000 feet away). Under software control, the CPU generates two separate strobes so that data can be transmitted to either or both printers independently.

Based on the state of the control lines from each printer, the controller develops two pairs of status lines to the CPU (READY 1 and 2, and DEMAND 1 and 2). Printer status defined by these lines is shown in Table 1.

The Controller, connected to the CPU via the 5012 Multifunction I/O Module, is not pollable or addressable. The message format consists simply of SOM (001), Data, CR (015), and EOM (003).

**Table 1  
Printer Status**

Printer No. 1 (Local)		
READY 1	DEMAND 1	
0	0	Printer off, de-selected or out of paper.
0	1	Printer off, de-selected or out of paper.
1	0	Printer selected but not ready to accept new data.
1	1	Printer request for new data.
Printer No. 2 (Remote)		
READY 2	DEMAND 2	
0	0	Out of Service (No Reverse Channel indication for 6 seconds).
0	1	Parity error in received data.
1	0	Printer not ready to accept new data.
1	1	Printer request for new data.

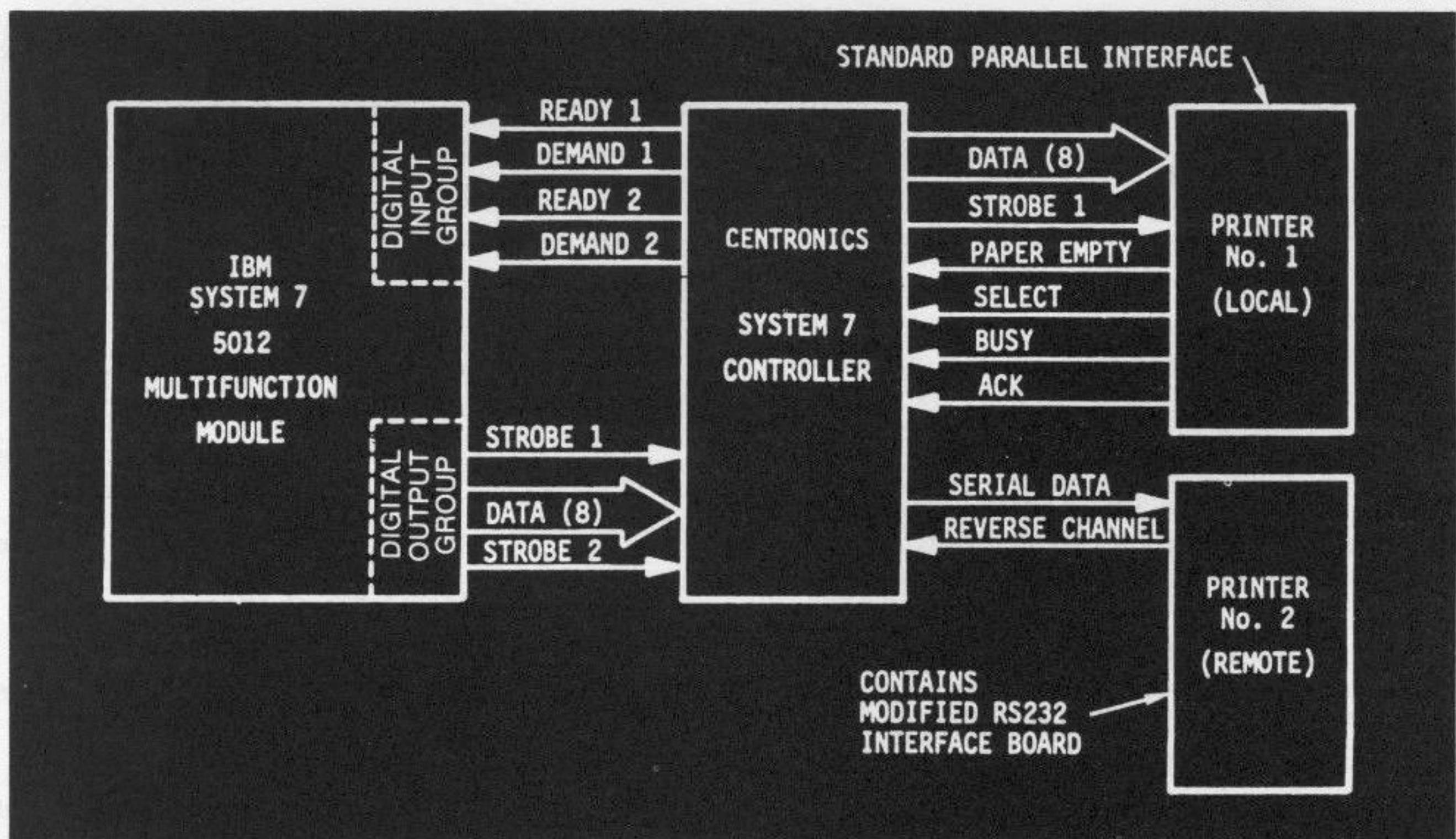
# Features

- Accepts parallel 8-bit input from the CPU and can transmit this data in parallel to a local printer and serially to a remote printer. CPU software develops separate strobe for each printer.
- Baud Rate up to 9600, selectable by changing the crystal and/or jumper connections.
- Parity of each character is checked in the remote printer. Upon reception of an EOM character, reverse channel indicates whether a parity error was detected in the preceding message, then relays this status to the CPU lines.
- One or two stop bits selectable by jumper option.
- If the remote printer fails to activate reverse channel during any 6 second interval, the interface transmits an Out-of-Service indication to the CPU.
- Paper empty or deselect condition in the local printer causes a fault indication to be transmitted to the CPU.
- A common set of eight data lines and two separate strobe lines from the CPU, allow the same data to be transmitted to either or both printers. The status of each printer is transmitted to the CPU by two separate sets of READY and DEMAND lines.

The System 7 Controller is contained in a box approximately 8 1/2" high, 11" deep and 12" wide. It is a completely self-contained unit consisting of a logic board, power supplies, three external connectors, a power cord and a power indicator. Two cables are shipped with the unit: a 15 foot standard parallel interface cable to the local printer and a 15 foot interface cable to the System 7. The RS232 interface cable to the remote printer is an option item, or may be supplied by the customer.

Specifications subject to change without notice

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