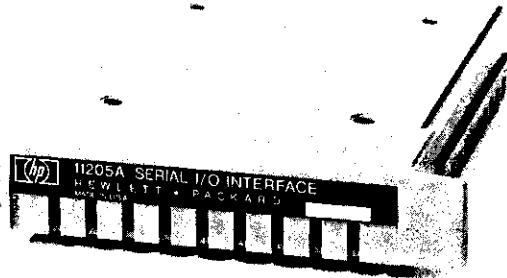


TECHNICAL DATA* SEPTEMBER 1975



DESCRIPTION

The HP 11205A Serial I/O Interface Card allows the 9800 Series calculators to interface to a wide variety of peripheral equipment. It is designed primarily to output from a calculator to a bit-serial device. It is widely used to output to teleprinters, but it is also able to communicate with teletype replacement devices: CRT terminals, page printers, and electrostatic printers/plotters. Asynchronous data rates from 110 to 1200 bits/sec are available. It may also be used as an input to the calculator provided that the bit-serial device can be controlled to transmit one character at a time by the clear-to-send signal. The use of the 11205 should be limited to the devices which operate as specified above.

The 11205 is designed to operate in half duplex, converting parallel 9800 Series calculator input/output data characters to an asynchronous serial input/output data stream. The serial drivers and receivers are designed to meet the EIA RS-232-C voltage specification. One of five bit rates may be selected by a switch on the card: 110, 150, 300, 600, or 1200 bits/sec.

The standard card is set for an 11-bit format (8/11) and 110 bits/sec. A 10-bit format (8/10) can be used by moving a jumper wire on the card.

APPLICATIONS

The 11205 has been tested and found to be electrically compatible with the following terminals:

- Teletype Model KSR 38 with Teletype 188724 Interface Cable.
- Teletype Model KSR 33 with Teletype 186136 (automatic answer) or 198420 (manual answer) Voltage Interface Kits. Compatibility with RO units is assumed. ASR compatibility requires a teletype modification to control the tape reader with clear-to-send from the 11205 card.

The above list does not constitute a recommendation or endorsement of these products, nor are any claims made as to features or systems capabilities. The user would be expected to verify necessary operational characteristics prior to purchase of these units. In addition, HP does not recommend the use of the 11205 with modems.

SPECIFICATIONS

Line Specifications

The 11205 comes with an 8-foot cable terminated in a standard EIA 25-pin female connector. Although compatible with EIA RS-232-C, not all of the control and status lines are provided by the 11205 card. The lines available for use are:

← From Calculator To →	Pin	Circuit	Function
↔	1	AA	Protective Ground
→	2	BA	Transmitted Data
←	3	BB	Received Data
←	5	CB	Clear-to-Send
←	6	CC	Data Set Ready**
↔	7	AB	Signal Ground
→	11		Peripheral Busy. Normally unassigned, this signal requires a jumper on the 11205 to activate. A logical "0" on this line indicates that the peripheral is not ready for more data from the calculator.

**Connected to +9 V through 1000 Ω.

Codes

The 8-bit ASCII code is standard with EIA RS-232-C devices. The 11205, however, places no restrictions on codes within the 8-level ASCII set.

Select Code

The 11205 is set at the factory for select code 15, which is position 0 on the select switch; codes 1 through 9 are also used with the select switch on the printed circuit card.

Rates

Five bit rates are available and may be conveniently switched through a slot in the card cover.

- 110 bit/sec: 10 characters per second with an 11-bit serial format. Used mostly with teletypes. The 11205 is delivered set for 110 bits/sec and an 11-bit format.

- 150, 300, 600, 1200 bits/sec: 15, 30, 60, and 120 characters per second in 10-bit serial format. Requires a change of the bit-rate switch and requires that the internal jumper be set to the 10-bit position. Note that most devices capable of receiving these bit rates will also accept an 11-bit format with the attendant reduction in character rate.

GENERAL

Power

Powered from the calculator.

Dimensions

Card Cage 121 mm (4¾") x 159 mm (6¼") with an 8-foot cable terminated in a female EIA standard 25-pin connector.

PURCHASE PLANS

Contact one of the Hewlett-Packard worldwide sales and service offices for specific prices and plans in your area.

MAINTENANCE AGREEMENTS

Maintenance agreements are available for all calculator products. These agreements represent HP's best level of support. Major advantages to the customer include:

- Fixed Annual Cost
- Automatic Equipment Upgrading
- Priority Service Response
- On-site Service
- Regular Maintenance
- A complete package tailored to the customer's needs.

*Data subject to change.

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