

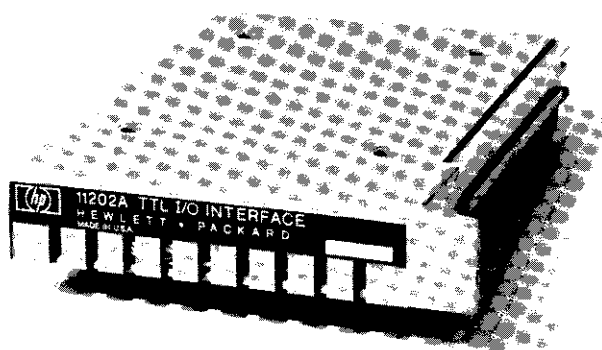
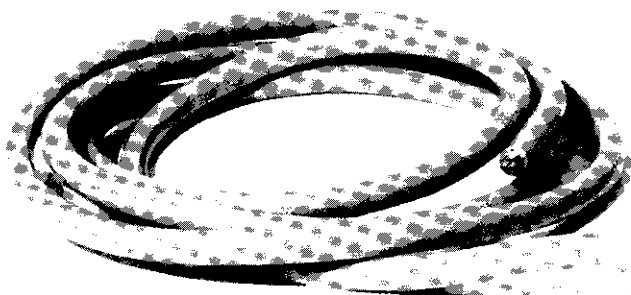
HEWLETT **hp** PACKARD

SERIES

9800

**11202A
TTL I/O
INTERFACE CARD**

TECHNICAL DATA AUGUST 1973



DESCRIPTION:

The -HP- 11202A General Interface Card provides solutions to a wide variety of interface problems. When used with an -HP- 9800 Series Calculator and the appropriate Peripheral Control ROM, the 11202A will input or output data in a number of formats.

The -HP- 11202A is analogous to an 8-bit computer duplex card with the distinction that data buffer storage is provided for only one transmission direction at a time.

Industry Standard TTL levels are provided, at the end of a six foot cable, for input, output, and control lines. Output data lines have open collectors. The card may be set to select from any of nine select codes, thus avoiding the possibility of overlap with dedicated peripherals.

It may be used for a wide variety of applications including data transmission, remote programming, scanning, multiplexing, or control. The card has sufficient drive capability to handle most low voltage reed relays.

SPECIFICATIONS:

Data Input:

Eight input lines with low power type 74L04 TTL loads and resistive divider consisting of 1.5K to +5V, and 2.7K to ground.

Data Output:

Eight output lines with open collector TTL - Hex Inverters (Type 7406). Logical "1" = 0 volts, Logical "0" = +5 volt.

Control Lines:

Five control and mode lines as follows:

Control (CTL) - High to low transition signifies card ready for Input or Output; open collector TTL.

FLG (FLG) - Returned low from device when data accepted (output) or data ready (input); TTL Schmitt Trigger.

Input/Output (I/O) - Signifies mode of operation (Input-High or Output-Low); TTL open collector.

Stop (STP) - Low level signifies stop key on calculator depressed. STP stays low for about 65 ms each time the STOP key is depressed. STP also forces CTL High when the calculator terminates an operation; TTL open collector.

Enable Handshake (ECH) - When connected to ground, requires peripheral device to have flag high to indicate device ready or CTL will not be driven low. When left open, the device is not 'polled' prior to driving CTL Low, STD TTL input with 10K pull-up resistor to +5 Volts.

Connections to the following HP instruments may be made easily and simply by ordering the connector option at slight additional cost:

2748A Punched Tape Reader Option A01
2895A Tape Punch Option A02
5401A Multi-Channel Analyzer Option A03
3484A Programs Multifunction Option A04
Unit for 3480A/B DVM
3485A Programs Scanning Unit Option A05
for 3480A/B DVM

Temperature Range:

+5°C. to +45°C. ambient.

Power:

Receives power from calculator.

Dimensions:

Card Cage 4-3/4" (12.06 cm) X 6-1/4" (15.87 cm) with six foot (1.82 m) cable.

PURCHASE PLANS:

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

Service Contracts Available.



Sales, service and support in 172 centers in 65 countries.
Loveland, Colorado 80537. Offices in principal cities throughout the U.S.