

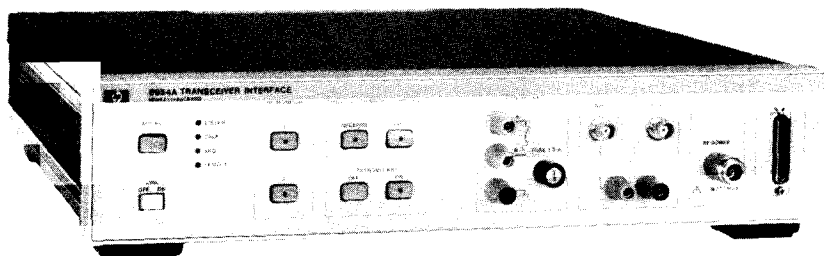


TRANSCEIVER TEST EQUIPMENT

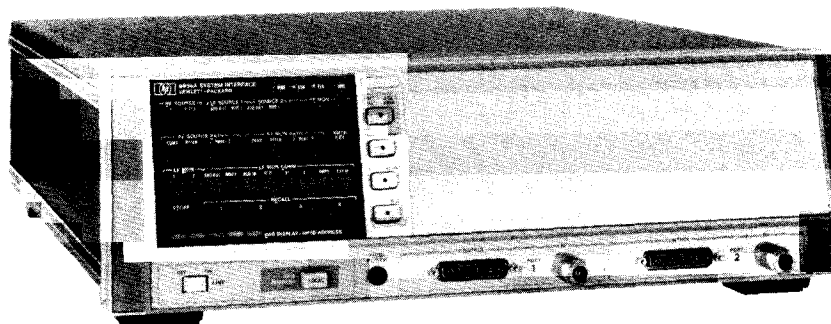
RF Interfaces

Models 8954A, 8956A

HP 8954A



HP 8956A



HP 8954A Transceiver Interface

The HP 8954A is Hewlett-Packard's lowest priced transceiver test interface. With this interface, signals can be routed between the measurement instruments and the transceiver under test. It is fully programmable and uses microwave switches and hardware in all RF paths. Designed for dc to 18 GHz measurements, the HP 8954A maintains low RF insertion loss and SWR.

The HP 8954A interface has connections that can integrate up to two RF signal sources, two RF monitors, an audio source, and an audio analyzer. You can also route a power supply's output through the interface to the front-panel transceiver control connector. External devices may be controlled with the HP 8954A's sixteen programmable Form A contact relays.

Using the annunciated front panel keys, you can manually control the Receive/Transmit signal path, select either RF monitor, or key the transmitter. The HP 8954A Transceiver Interface provides the flexibility needed for most AM, FM and SSB receiver and transmitter testing.

HP 8954A-H03 Transceiver Interface

The HP 8954A Option H03 Transceiver Interface is a full-duplex version of the standard HP 8954A. The standard RF switching hardware is replaced with a power divider network, adding the capability to test duplex radios. The HP 8954A-H03 can also be used with the HP 11799A Signaling Unit for testing NMT (Nordic Mobile Telephone) cellular radios.

HP 8954A Specifications

RF frequency range: 100 kHz to 1300 MHz (usable dc to 18 GHz).

VSWR (RF Port to RF Monitor): 1.15.

VSWR (RF Source to RF Port): 1.15.

RF insertion loss (RF Port to RF Monitor): 0.5 dB.

RF insertion loss (RF Source to RF Port): 6.0 dB + 0.45 dB - 0.35 dB.

Audio frequency range: 20 Hz to 100 kHz (dc coupled).

Audio insertion loss: 0.03 dB, 20 Hz to 20 kHz; 0.3 dB, 20 kHz to 100 kHz.

HP 8954A-H03 Specifications

RF frequency range: 10 MHz to 1500 MHz

VSWR: 1.5

RF insertion loss:

RF Port to RF Monitor 1: 25 dB

RF Port to RF Monitor 2: 34 dB

RF Source to RF Port: 34 dB

Ordering Information

HP 8954A Transceiver Interface

HP 8954A-H03 Transceiver Interface

Price

\$3,700

4,570

HP 8956A System Interface

The HP 8956A System Interface, with its multiple paths and connections, provides flexibility in the designing of systems in the frequency range from dc to 1000 MHz. It can integrate up to three RF signal sources, three RF monitors, two audio sources, two audio analyzers and a dc power supply.

A front panel keyboard simplifies control of all switching operations, making it a valuable component in system integration. The ability to Store and Recall front panel settings gives extra versatility in manual operation.

The HP 8956A System Interface has two RF test ports for duplex testing, stimulus/response testing or for connect/unconnect of one radio while another is being tested. Next to each RF port is a control connector that contains all the audio and power signals for simplifying test connections.

Additional functions of the HP 8956A include current drain and timing measurements.

HP 8956A Specifications

Frequency range: dc to 1000 MHz.

Maximum input power to RF ports

With the 30 dB attenuator: 120W CW;

Without the 30 dB attenuator: 0.5W CW.

VSWR

RF ports (instrument connections terminated in 50 ohms):

With the 30 dB attenuator: dc to 1000 MHz: 1.2.

Audio frequency range: dc to 100 kHz.

Ordering Information

HP 8956A System Interface

Price

\$13,000