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TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

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Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
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Custom engineering
so your equipment works exactly as you specify.

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Expert team | Trust guarantee | 100% satisfaction

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Looking for your operations team. . .



. . .You won't find them sitting behind a desk.

Make sure they have the right equipment!
We recommend the new HP 8935 Series TDMA test set. . .



. . .to enhance system performance & increase efficiency!

Find Problems Quickly
- TDMA modulation quality measurements for finding radio problems
- Spectrum analyzer for identifying noise & interference
- RF instrumentation for troubleshooting signal path & antenna problems

Reduce Troubleshooting Time
- Full test capability for both cellular & PCS frequency bands
- Automation software customized for your base station, to reduce test time
- Hewlett-Packard reliability, support, & training

Designed for the wireless environment
- Side panel connectors keep cables out of the way & connectors protected
- Ruggedized, single box construction
- Membrane keypad & gasketed display to resist dirt & moisture
- Bright electroluminescent display

HEWLETT® PACKARD
Expanding Possibilities

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TDMA Signal Generator

Frequency Range: 824 to 894 MHz, 1.85 GHz to 1.910 GHz

Output Level Range:
RF In/Out: –40 dBm to –127 dBm
Duplex: –10 dBm to –125 dBm

Residual Error Vector Magnitude: <3.5%

Residual Phase Error: <3.5°

Residual Magnitude Error: <3.5%

IQ Origin Offset: <–30 dBc within ±15° C of last calibration

Frequency Error: ±4 Hz plus frequency reference

TDMA Analyzer

Frequency Range: 30 MHz to 1000 MHz, 1.7 GHz to 2.0 GHz

Input Level Range:
RF In/Out: 3.2 mW to 60 W (5 dBm to +47.8 dBm)
Ant In: 0.5 µW to 31.6 mW (–33 dBm to +15 dBm)

Residual Error Vector Magnitude: <1.5%

Error Vector Magnitude Measurement Accuracy: 0.4% + 2% of reading for measured EVM values >3%

Residual Phase Error: <1.5°

Residual Magnitude Error: <1.4%

IQ Origin Offset Accuracy: ±0.5 dB for values greater than –40 dBc

Frequency Error Accuracy: ±2 Hz plus frequency reference

RF Analyzer Measurements

Frequency: 400 kHz to 1000 MHz, 1.7 GHz to 2.0 GHz

RF Power: 4 mW to 100 W continuous

FM Measurements: 20 Hz to 75 kHz,

AM Measurements: 0 to 95%

SSB Measurements: 20 Hz to 70 kHz 3 dB BW

AF Source

Frequency Range: dc to 25 kHz

Output Range: 0.1 mV to 4 Vrms

Waveforms: Sine, square, triangle, ramp, dc, Gaussian white noise, uniform white noise.

AF Analyzer

Frequency Measurement: 20 Hz to 400 kHz

AC Voltage Measurement: 0 to 30 Vrms

DC Voltage Measurement: 100 mV to 42 V

Audio Filters: <20 Hz HPF, 50 kHz HPF, 300 Hz HPF, 300 Hz LPF, 3 kHz LPF, 15 kHz LPF, >99 kHz LPF, 750 µsec de-emphasis, C-message, and 6 kHz BPF.

AF Analyzer *continued*

Variable Frequency Notch Filter: 300 Hz to 10 kHz

SINAD Measurement: 0 to 60 dB

Distortion Measurement: 0.1% to 100%

Audio Detectors: RMS, Pk+, Pk–, Pk+hold, Pk–hold, Pk±–2, Pk±/2 hold, Pk±Max, and Pk±Max Hold

Oscilloscope

Frequency Range: 2 Hz to 50 kHz, (3 dB BW)

Scale/Division: 10 mV to 10 V

Time/Division: 10 µsec to 100 msec

Options

- **Rubidium Time Base**
- **Soft Carrying Case**
- **Lucent Base Station Test Software & Connection Kit**
- **Ericsson Base Station Test Software & Connection Kit**
- **Nortel Base Station Test Software & Connection Kit**

General

Storage Temperature: –40° to +70° C

Dimensions: 8.75 H x 15.6 W x 21.5 D inches, (222 x 396 x 546 mm)

Weight: 50 lbs, (22.7 kg)

Display: Electroluminescent technology

Display Area: 9.7 cm x 13 cm

Calibration Interval: Two years

Card Compatibility: Industry standard PCMCIA slot accepts Types I or II.

Storage Capability: Storage and retrieval of IBASIC program parameter and results data, input of new calibration data, and long-term storage of Store/Recall information.

Firmware Upgrades: Accepts PCMCIA memory cards to allow automatic loading of new firmware from the front panel.

HP-IB: HP's implementation of IEEE Standard 488.2 with one HP-IB port.

Parallel Ports: Two parallel (Centronics) interfaces

Serial Ports: Three serial interfaces through sub-min D connectors (Rates: 150, 300, 600, 1200, 2400, 4800, 9600 and 19200 baud).

Built-in IBASIC Controller

Ordering Information

HP 8935 Series TDMA Cellular/PCS
Base Station Test Set **E6381A**

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