

EMI/EMC TEST SYSTEMS

EMC Analyzers and Precompliance Systems

HP 8590EM Series, 84100EM, 84110EM



HP 8590EM Series EMC Analyzers

DESIGNED FOR
HP-IB
SYSTEMS

5 HP 8590 Series EMC Analyzers

Whether your industry is information technology, automotive, communication, or medical electronics, you need to evaluate the EMI performance of your designs during the development phase. The HP 8590EM series EMC analyzer allows you to evaluate this performance quickly and easily.

Compare your products' radiated and conducted emissions performance to the following regulatory agency limits:

- EN55011
- EN55014
- EN55022
- FCC Part 15
- VCCI
- VDE 0871
- VFG

The 8590EM series EMC analyzers have the following functionality and features to speed you through your measurements:

- Complete measurement setups including span and CISPR bandwidths
- Displays two limits and margins
- Corrections for antenna, cable and amplifier
- Measure the peak, quasi-peak, and average amplitudes of 239 signals and store the results to the internal list
- The windows feature zooms in on signals while viewing the broad spectrum
- Log frequency sweep to expand signals in lower frequencies. Useful for conducted emissions testing
- Sort remeasure, mark, and delete signals in the internal list
- Customize and print reports which can include two pages of text, signal list, and graphics
- Standard HP-IB and parallel ports

In addition, you can edit or customize, and store limit lines and correction factors for transducers, cables, or other devices to a RAM card.

The HP 8590 Series EMC analyzers are offered in the following frequency ranges:

HP 8591EM	9 kHz to 1.8 GHz
HP 8593EM	9 kHz to 22 GHz
HP 8594EM	9 kHz to 2.9 GHz
HP 8595EM	9 kHz to 6.5 GHz
HP 8596EM	9 kHz to 12.8 GHz

The RF performance of the 8590 series EMC analyzers is the same as the HP 8590E series spectrum analyzers.



HP 84100EM Design Development System

Identification, isolation, and resolution of problem emissions early in the design process is key to a successful product introduction. With the HP 84100EM design development system you can easily isolate problem signals using the close field probes supplied with the system. The calibrated probes gives very repeatable measurements ensuring that assessments of redesigns will produce meaningful results. The system is based on the HP 8591EM plus the tracking generator and without the quasi-peak detector and the HP 11945A close field probe set which covers 9 kHz to 1 GHz.

HP 84110EM Preproduction Evaluation System

The HP 84110EM has everything you need to perform radiated and conducted emissions measurements on your product. The HP 84110EM system is based on the new HP 8591EM which contains quasi-peak adapter, and dual I/O ports (HP-IB and parallel). The system also includes HP 11955A biconical and HP 11956A log periodic antennas, HP 11968C tripod, HP 11966L 40 meter cable, HP 11967D line impedance stabilization network, and HP 11945A Opt E51 close field probe kit. Also included is a 256 KB RAM card and a ROM card with regulatory limits and transducer factors.

Key Literature

EMC Precompliance Measurement Systems and Accessories,
p/n 5091-4124E.
EMC Accessories Catalog, p/n 5952-1791.

Ordering Information

HP 84100EM EMC Design Development System	Price \$23,075
Opt 103 Quasi-Peak Detection and AM/FM Demodulation	+\$1,735
HP 84110EM EMC Pre-Production Evaluation System	\$25,000

* CISPR Publication 16 is the Comite International Special des Perturbations Radioelectrique specification for radio interference measuring apparatus and measurement methods.