New Module Triples EMC Testing Range to 18 GHz in Digital Receiver

Teseq Inc. now offers a high-performance digital EMC/EMI receiver module that extends the frequency range of the PMM 9010 receiver system from 6 GHz to 18 GHz. Ideal for use in commercial test labs and by in-house manufacturers' labs, the upgraded PMM system can now be used for a wider range of EMC testing.

The innovative PMM 9180 offers high performance, convenience and cost savings by cutting turnaround times and eliminating the need for expensive coax cables and periodic calibration checks. It provides better radiated emissions system sensitivity than other units on the market.

The uniquely designed, battery-powered PMM 9180 is the only fully-compliant EMI receiver module on the market directly connected to an antenna located inside the testing chamber and has the ability to transmit data outside the testing chamber via fiber optic cable, eliminating signal losses that can exceed 20 dB.

The PMM 9180 is fully compliant with CISPR 16-1-1 and MIL-STD. It features a plug-in Li-Ion rechargeable battery that lasts for a minimum of four hours.

The FCC requires that EMC emissions testing be performed at 10 times the highest clock frequency in a product. By using the PMM 9180, FCC testing can be performed on products with clock speeds to 1.8 GHz as well as MIL 461 RE 102 testing, which has an upper frequency limit of 18 GHz. The PMM 9180 can also be used for CE marking.

The PMM 9180 is fully compatible with the PMM Emissions Suite software. This unique software offers full control of all auto and manual receiver functions, real-time display, editing of standard limits, creation of correction factors tables and warning messages for incorrect settings.

In addition, the software includes one-click operation for selecting measuring mode: swept, spectrum analyzer or tuned. All measurements taken by the receiver can be retrieved, saved, recalled and compared when using PMM's PC Emissions Suite software.

The PMM 9180 features a high speed optical interface, an operating temperature of -5°C to 45°C, a measurement accuracy of +2.0 dB and a maximum input level of 137 dBuV without damage. Weighing approximately 4.5 pounds, the PMM 9180 is highly portable and reliable. Teseq is the exclusive North American distributor for PMM, a brand of Narda Safety Test Solutions srl, which manufactures the PMM 9180. The PMM 9180 receiver module starts at $36,000. Delivery is 12 weeks ARO.

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