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MICRONIX

OTA test solution in IoT

◇OTA test solution in IoT - Throughput test -

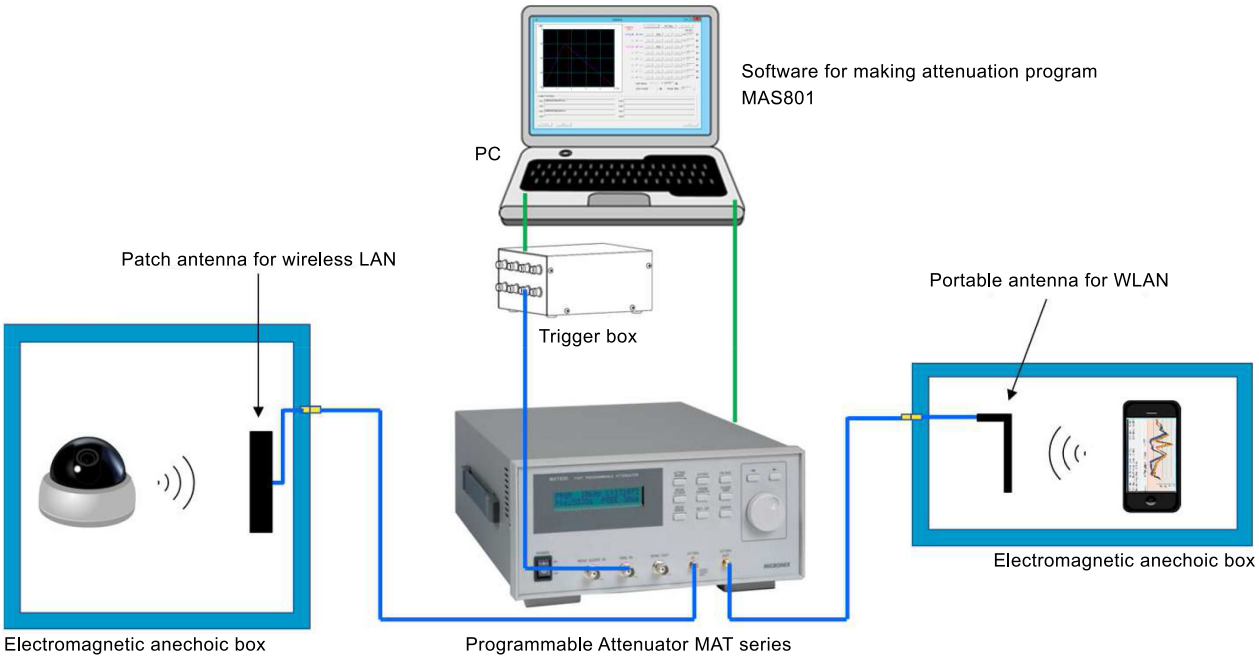
Application

The era of IoT (Internet of Things) where various "things" are connected to the network has come, and "things" such as many electronic devices, machines and others are connected to the network using wireless communication.

Since the IoT devices (things) is diversified, OTA (Over the Air) test is required to evaluate the radio performance.In the OTA test, since these "things" are connected by radio, it is required electromagnetically independent space (shield environment) that doesn't affect the existing radio environment and are not affected by the existing radio environment.

We will provide a system that combines electronic programmable attenuator and anechoic box (shield box) as the OTA test solution corresponding to various wireless communication standards such as WiFi, Bluetooth and cellular phone.

Solution



☆ Programmable attenuator

・Any spike and chattering won't be generated because of electronic attenuator.
・The PC software enables to create and control scenarios with intuitive operation.
・Minimum attenuation step 0.05 dB enables highly accurate simulation.
・Lineup of six models

Model	Frequency range	Maximum attenuation
MAT800A	1.5 to 4.5GHz	80dB
MAT800B	3.0 to 9.0GHz	
MAT800C	4.5 to 13.5GHz	
MAT800D	1.95 to 5.85GHz	
MAT800E	0.75 to 2.25GHz	
MAT810	0.3 to 6.6GHz	60dB

☆ Electromagnetic anechoic box

・Abundant lineup from small desktop type to 2 m class floor placing type.
・Corresponding to various connectors and interfaces.
・Possible of extensive customization.

System configuration

Example

・Programmable attenuator ・Electromagnetic anechoic box ・Software for making attenuation program & Trigger box

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