USB Modular Instruments Enable Flexible Configurations for Electronic Functional Test

Agilent Technologies introduced a family of USB-based instruments designed for flexible configurations and quick setupin electronic functional test and troubleshooting applications. The Agilent U2700A family includes oscilloscopes, function generator, source/measure unit and switch matrix in a versatile, space-saving form factor. Each device can be used as a standalone instrument, or mounted in a compatible chassis with other modules. In modular operations, the chassis enables synchronization of all slotted modules through master/slave triggering capabilities, even across modules with different functions (excluding the switch matrix). The bundled Agilent Modular Instruments Measurement Manager software provides out-of-box configuration with its graphical interface and easily accessible functions, providing measurements without programming. Bundled IVI drivers allow users to program with Agilent VEE, C#, C++ and Microsoft Visual Basic, LabVIEW, if they wish. The Agilent U2700A Series includes 100 MHz U2701A and 200 MHz U2702A USB modular oscilloscopes, with sampling rates up to 1 GSa/s for use in troubleshooting tasks such as circuit-board power-up sequence, in-rush current and frequency measurements; the U2761A 20 MHz USB modular function generator, which produces sine, square, triangular, pulse, ramp, exponential, modulated and arbitrary waveforms for electronic functional testing and electronic troubleshooting; the three-channel U2722A USB modular source/measure unit, which offers four-quadrant source and measurement capabilities for parametric tests including test point measurement, current and voltage source/measure, and resistance measurement; and the U2751A USB modular switch matrix, a four-by-eight, two-wire design with 32 channels that provide additional test points for functional tests. Key specifications include crosstalk of <-30 dB at 45 MHz and insertion loss of 4.5 dB (with U2922A terminal block).

Agilent Technologies
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